Encyclopedia of MANAGEMENT THEORY
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Contents

Volume 1
List of Entries vii
Reader’s Guide xi
About the Editor xv
Contributors xvii
Introduction xxv

Entries
A 1  H  333
B  57  I  361
C 105  J  407
D 185  K  415
E 225  L  425
F 281  M  455
G 297

Volume 2
List of Entries vii

Entries
N  501  S  675
O  513  T  821
P  577  U  915
Q  645  V  923
R  655  W  931

Appendix A: Chronology of Management Theory  935
Appendix B: Central Management Insights  945

Index  963
List of Entries

<table>
<thead>
<tr>
<th>Academic-Practitioner Collaboration and Knowledge Sharing</th>
<th>Charismatic Theory of Leadership</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acculturation Theory</td>
<td>Circuits of Power and Control</td>
</tr>
<tr>
<td>Achievement Motivation Theory</td>
<td>Cognitive Dissonance Theory</td>
</tr>
<tr>
<td>Action Learning</td>
<td>Cognitive Resource Theory</td>
</tr>
<tr>
<td>Action Research*</td>
<td>Competing Values Framework</td>
</tr>
<tr>
<td>Actor-Network Theory*</td>
<td>Competitive Advantage*</td>
</tr>
<tr>
<td>Adaptive Structuration Theory</td>
<td>Complexity Theory and Organizations</td>
</tr>
<tr>
<td>Affect Theory</td>
<td>Compliance Theory</td>
</tr>
<tr>
<td>Affective Events Theory</td>
<td>Componential Theory of Creativity*</td>
</tr>
<tr>
<td>Agency Theory*</td>
<td>Conflict Handling Styles*</td>
</tr>
<tr>
<td>Analytic Hierarchy Process Model</td>
<td>Contingency Theory*</td>
</tr>
<tr>
<td>Analytical and Sociological Paradigms*</td>
<td>Contingency Theory of Leadership*</td>
</tr>
<tr>
<td>Appreciative Inquiry Model</td>
<td>Continuous and Routinized Change</td>
</tr>
<tr>
<td>Architectural Innovation</td>
<td>Coopration</td>
</tr>
<tr>
<td>Asch Effect</td>
<td>Core Competence*</td>
</tr>
<tr>
<td>Attraction-Selection-Attrition Model</td>
<td>Corporate Social Responsibility</td>
</tr>
<tr>
<td>Attribution Model of Leadership</td>
<td>Critical Management Studies*</td>
</tr>
<tr>
<td>Authentic Leadership</td>
<td>Critical Theory of Communication</td>
</tr>
<tr>
<td></td>
<td>CSR Pyramid</td>
</tr>
<tr>
<td></td>
<td>Cultural Attitudes in Multinational Corporations</td>
</tr>
<tr>
<td>Bad Theories</td>
<td>Cultural Intelligence</td>
</tr>
<tr>
<td>Balanced Scorecard</td>
<td>Cultural Values*</td>
</tr>
<tr>
<td>BCG Growth-Share Matrix</td>
<td>Decision Support Systems</td>
</tr>
<tr>
<td>Behavioral Perspective of Strategic Human Resource Management</td>
<td>Decision-Making Styles</td>
</tr>
<tr>
<td>Behavioral Theory of the Firm*</td>
<td>Dialectical Theory of Organizations</td>
</tr>
<tr>
<td>Big Five Personality Dimensions*</td>
<td>Diamond Model of National Competitive Advantage*</td>
</tr>
<tr>
<td>Bounded Rationality and Satisficing (Behavioral Decision-Making Model)*</td>
<td>Differentiation and the Division of Labor*</td>
</tr>
<tr>
<td>Brainstorming</td>
<td>Discovery Theory of Entrepreneurship</td>
</tr>
<tr>
<td>Bureaucratic Theory*</td>
<td>Diversification Strategy</td>
</tr>
<tr>
<td>Business Groups</td>
<td>Double Loop Learning</td>
</tr>
<tr>
<td>Business Policy and Corporate Strategy*</td>
<td>Dramaturgical Theory of Organizations</td>
</tr>
<tr>
<td>Business Process Reengineering*</td>
<td>Dual-Concern Theory</td>
</tr>
<tr>
<td>BVSR Theory of Human Creativity</td>
<td>Dual-Core Model of Organizational Innovation</td>
</tr>
<tr>
<td></td>
<td>Dynamic Capabilities</td>
</tr>
<tr>
<td>Career Stages and Anchors</td>
<td></td>
</tr>
<tr>
<td>Causal Attribution Theory</td>
<td></td>
</tr>
</tbody>
</table>

*Editor's Note: Anchor entries are designated with an asterisk.*
Emotional and Social Intelligence*
Empowerment*
Engaged Scholarship Model
Entrepreneurial Cognition
Entrepreneurial Effectuation
Entrepreneurial Opportunities
Entrepreneurial Orientation
Environmental Uncertainty
Equity Theory*
ERG Theory
Escalation of Commitment
Ethical Decision Making, Interactionist Model of European Model of Human Resource Management
Evidence-Based Management
Excellence Characteristics
Expectancy Theory*
Experiential Learning Theory and Learning Styles

Fairness Theory
Firm Growth
First-Mover Advantages and Disadvantages
Force Field Analysis and Model of Planned Change*
Functions of the Executive

Game Theory*
Gantt Chart and PERT
Garbage Can Model of Decision Making
Genderlect and Linguistic Styles
GLOBE Model
Goal-Setting Theory*
Group Development*
Group Polarization and the Risky Shift
Group Punctuated Equilibrium Model
Groupthink

High- and Low-Context Cultures
High-Performance Work Systems
High-Performing Teams
High-Reliability Organizations
HR Roles Model. See Human Resources Roles Model
HRM Strategies. See Human Resource Management Strategies
Human Capital Theory
Human Resource Management Strategies
Human Resources Roles Model

Humanistic Management*
Hypercompetition
Image Theory
Individual Values
Influence Tactics
Informal Communication and the Grapevine
Information Richness Theory
Innovation Diffusion*
Innovation Speed
Institutional Theory*
Institutional Theory of Multinational Corporations
Integrative Social Contracts Theory
Interactional Model of Cultural Diversity*
Interactionist Model of Organizational Creativity
Interorganizational Networks
Intuitive Decision Making
Investment Theory of Creativity

Job Characteristics Theory
Job Demands–Resources Model

Kaizen and Continuous Improvement
Knowledge Workers
Knowledge-Based View of the Firm

Large Group Interventions
Lead Users
Leader–Member Exchange Theory
Leadership Continuum Theory
Leadership Practices
Lean Enterprise
Learning Organization*
Level 5 Leadership
LMX Theory. See Leader–Member Exchange Theory
Locus of Control
Logical Incrementalism

Management (Education) as Practice
Management by Objectives
Management Control Systems
Management Roles*
Management Symbolism and Symbolic Action
Managerial Decision Biases
Managerial Grid
Managerialism
<table>
<thead>
<tr>
<th>List of Entries</th>
</tr>
</thead>
<tbody>
<tr>
<td>Managing Diversity</td>
</tr>
<tr>
<td>Matrix Structure</td>
</tr>
<tr>
<td>Meaning and Functions of Organizational</td>
</tr>
<tr>
<td>Culture</td>
</tr>
<tr>
<td>Model of Occupational Types,</td>
</tr>
<tr>
<td>See Occupational Types, Model of</td>
</tr>
<tr>
<td>Modes of Strategy: Planned and Emergent</td>
</tr>
<tr>
<td>Moral Reasoning Maturity*</td>
</tr>
<tr>
<td>Multicultural Work Teams</td>
</tr>
<tr>
<td>Multifirm Network Structure</td>
</tr>
<tr>
<td>Multilevel Research</td>
</tr>
<tr>
<td>Narrative (Story) Theory</td>
</tr>
<tr>
<td>Needs Hierarchy</td>
</tr>
<tr>
<td>Neo-Institutional Theory</td>
</tr>
<tr>
<td>Norms Theory</td>
</tr>
<tr>
<td>Occupational Types, Model of</td>
</tr>
<tr>
<td>Open Innovation</td>
</tr>
<tr>
<td>Organic and Mechanistic Forms</td>
</tr>
<tr>
<td>Organizational and Managerial Wisdom</td>
</tr>
<tr>
<td>Organizational Assimilation Theory</td>
</tr>
<tr>
<td>Organizational Commitment Theory</td>
</tr>
<tr>
<td>Organizational Culture and Effectiveness</td>
</tr>
<tr>
<td>Organizational Culture Model*</td>
</tr>
<tr>
<td>Organizational Culture Theory</td>
</tr>
<tr>
<td>Organizational Demography</td>
</tr>
<tr>
<td>Organizational Development*</td>
</tr>
<tr>
<td>Organizational Ecology*</td>
</tr>
<tr>
<td>Organizational Effectiveness</td>
</tr>
<tr>
<td>Organizational Identification</td>
</tr>
<tr>
<td>Organizational Identity</td>
</tr>
<tr>
<td>Organizational Learning</td>
</tr>
<tr>
<td>Organizational Socialization</td>
</tr>
<tr>
<td>Organizational Structure and Design*</td>
</tr>
<tr>
<td>Organizational Based Self-Esteem</td>
</tr>
<tr>
<td>Participative Model of Decision Making</td>
</tr>
<tr>
<td>Path-Goal Theory of Leadership*</td>
</tr>
<tr>
<td>Patterns of Innovation</td>
</tr>
<tr>
<td>Patterns of Political Behavior</td>
</tr>
<tr>
<td>Personal Engagement (at Work) Model</td>
</tr>
<tr>
<td>Positive Organizational Scholarship</td>
</tr>
<tr>
<td>Practice of Management, The*</td>
</tr>
<tr>
<td>Principled Negotiation*</td>
</tr>
<tr>
<td>Principles of Administration and</td>
</tr>
<tr>
<td>Management Functions*</td>
</tr>
<tr>
<td>Process Consultation</td>
</tr>
<tr>
<td>Process Theories of Change*</td>
</tr>
<tr>
<td>Product Champions</td>
</tr>
<tr>
<td>Product-Market Differentiation Model</td>
</tr>
<tr>
<td>Profiting From Innovation</td>
</tr>
<tr>
<td>Programmability of Decision Making</td>
</tr>
<tr>
<td>Prospect Theory*</td>
</tr>
<tr>
<td>Protean and Boundaryless Careers</td>
</tr>
<tr>
<td>Psychological Contract Theory*</td>
</tr>
<tr>
<td>Psychological Type and Problem-Solving Styles</td>
</tr>
<tr>
<td>Punctuated Equilibrium Model</td>
</tr>
<tr>
<td>Quality Circles</td>
</tr>
<tr>
<td>Quality Trilogy*</td>
</tr>
<tr>
<td>Quantum Change</td>
</tr>
<tr>
<td>Reinforcement Theory*</td>
</tr>
<tr>
<td>Resource Dependence Theory*</td>
</tr>
<tr>
<td>Resource Orchestration Management</td>
</tr>
<tr>
<td>Resource-Based View of the Firm*</td>
</tr>
<tr>
<td>Role Theory*</td>
</tr>
<tr>
<td>Schemas Theory</td>
</tr>
<tr>
<td>Scientific Management*</td>
</tr>
<tr>
<td>Self-Concept and the Theory of Self</td>
</tr>
<tr>
<td>Self-Determination Theory*</td>
</tr>
<tr>
<td>Self-Fulfilling Prophecy</td>
</tr>
<tr>
<td>Sensemaking*</td>
</tr>
<tr>
<td>Servant Leadership</td>
</tr>
<tr>
<td>Seven-S Framework</td>
</tr>
<tr>
<td>Situational Theory of Leadership</td>
</tr>
<tr>
<td>Six Sigma</td>
</tr>
<tr>
<td>Social Cognitive Theory*</td>
</tr>
<tr>
<td>Social Construction Theory*</td>
</tr>
<tr>
<td>Social Entrepreneurship</td>
</tr>
<tr>
<td>Social Exchange Theory*</td>
</tr>
<tr>
<td>Social Facilitation Management</td>
</tr>
<tr>
<td>Social Identity Theory*</td>
</tr>
<tr>
<td>Social Impact Theory and Social Loafing</td>
</tr>
<tr>
<td>Social Information Processing Model*</td>
</tr>
<tr>
<td>Social Movements</td>
</tr>
<tr>
<td>Social Network Theory</td>
</tr>
<tr>
<td>Social Power, Bases of*</td>
</tr>
<tr>
<td>Sociotechnical Theory*</td>
</tr>
<tr>
<td>Stages of Creativity</td>
</tr>
<tr>
<td>Stages of Innovation</td>
</tr>
<tr>
<td>Stakeholder Theory</td>
</tr>
<tr>
<td>Stewardship Theory</td>
</tr>
<tr>
<td>Strategic Alliances</td>
</tr>
<tr>
<td>Strategic Contingencies Theory</td>
</tr>
<tr>
<td>Strategic Alliances</td>
</tr>
<tr>
<td>Strategic Entrepreneurship*</td>
</tr>
<tr>
<td>Strategic Flexibility</td>
</tr>
<tr>
<td>Strategic Frames</td>
</tr>
<tr>
<td>--------------------------------------</td>
</tr>
<tr>
<td>Strategic Groups</td>
</tr>
<tr>
<td>Strategic Information Systems</td>
</tr>
<tr>
<td>Strategic International Human Resource Management</td>
</tr>
<tr>
<td>Strategic Profiles</td>
</tr>
<tr>
<td>Strategies for Change</td>
</tr>
<tr>
<td>Strategy and Structure</td>
</tr>
<tr>
<td>Strategy-as-Practice</td>
</tr>
<tr>
<td>Structuration Theory*</td>
</tr>
<tr>
<td>Substitutes for Leadership</td>
</tr>
<tr>
<td>SWOT Analysis Framework</td>
</tr>
<tr>
<td>Systems Theory of Organizations*</td>
</tr>
<tr>
<td>Tacit Knowledge</td>
</tr>
<tr>
<td>Technological Discontinuities*</td>
</tr>
<tr>
<td>Technology Acceptance Model</td>
</tr>
<tr>
<td>Technology Affordances and Constraints</td>
</tr>
<tr>
<td>Technology and Complexity</td>
</tr>
<tr>
<td>Technology and Interdependence/Uncertainty*</td>
</tr>
<tr>
<td>Technology and Programmability</td>
</tr>
<tr>
<td>Technology S-Curve</td>
</tr>
<tr>
<td>Theory Development*</td>
</tr>
<tr>
<td>Theory of Constraints</td>
</tr>
<tr>
<td>Theory of Cooperation and Competition</td>
</tr>
</tbody>
</table>
Reader’s Guide

### Nature of Management
- Functions of the Executive
- Humanistic Management
- Management Roles
- Management Symbolism and Symbolic Action
- Managerialism
- Organizational and Managerial Wisdom
- *Practice of Management, The*
- Principles of Administration and Management Functions
- Scientific Management

### Managing People, Personality, and Perception
- Affect Theory
- Affective Events Theory
- Big Five Personality Dimensions
- Causal Attribution Theory
- Cognitive Dissonance Theory
- Emotional and Social Intelligence
- Fairness Theory
- Image Theory
- Individual Values
- Job Demands–Resources Model
- Locus of Control
- Organizational Commitment Theory
- Organizational Identification
- Organizationally Based Self-Esteem
- Psychological Contract Theory
- Psychological Type and Problem-Solving Styles
- Schemas Theory
- Self-Concept and Theory of Self
- Self-Fulfilling Prophecy
- Sensemaking
- Social Cognitive Theory
- Social Construction Theory
- Social Identity Theory
- Social Information Processing Model

### Theory of Emotions
- Theory of Reasoned Action
- Theory of Self-Esteem
- Type A Personality Theory

### Managing Motivation
- Achievement Motivation Theory
- Empowerment
- Equity Theory
- ERG Theory
- Expectancy Theory
- Goal-Setting Theory
- Job Characteristics Theory
- Management by Objectives
- Needs Hierarchy
- Reinforcement Theory
- Self-Determination Theory
- Theory of Reasoned Action
- Two-Factor Theory (and Job Enrichment)

### Managing Interactions
- Circuits of Power and Control
- Conflict Handling Styles
- Critical Theory of Communication
- Dialectical Theory of Organizations
- Dual-Concern Theory
- Genderlect and Linguistic Styles
- Influence Tactics
- Informal Communication and the Grapevine
- Information Richness Theory
- Organizational Assimilation Theory
- Patterns of Political Behavior
- Principled Negotiation
- Social Exchange Theory
- Social Information Processing Model
- Social Movements
- Social Network Theory
- Social Power, Bases of
- Strategic Contingencies Theory
Structuration Theory
Theory of Cooperation and Competition
Trust

Managing Groups
Asch Effect
Group Development
Group Polarization and the Risky Shift
Group Punctuated Equilibrium Model
Groupthink
High-Performing Teams
Multicultural Work Teams
Norms Theory
Role Theory
Social Facilitation Management
Social Identity Theory
Social Impact Theory and Social Loafing
Virtual Teams
Work Team Effectiveness

Managing Organizations
Actor-Network Theory
Agency Theory
Behavioral Theory of the Firm
Bureaucratic Theory
Complexity Theory and Organizations
Compliance Theory
Cooptation
Differentiation and the Division of Labor
Dramaturgical Theory of Organizations
High-Reliability Organizations
Knowledge-Based View of the Firm
Matrix Structure
Meaning and Functions of
Organizational Culture
Multifirm Network Structure
Organic and Mechanistic Forms
Organizational Culture and Effectiveness
Organizational Culture Model
Organizational Culture Theory
Organizational Identity
Organizational Socialization
Organizational Structure and Design
Sociotechnical Theory
Stewardship Theory
Systems Theory of Organizations
Technology and Complexity
Technology and Interdependence/
Uncertainty

Technology and Programmability
Typology of Organizational Culture

Managing Environments
Business Groups
Contingency Theory
Environmental Uncertainty
Institutional Theory
Interorganizational Networks
Neo-Institutional Theory
Organizational Ecology
Resource Dependence Theory
Social Network Theory
Strategic Alliances
Transaction Cost Theory

Strategic Management
Agency Theory
Balanced Scorecard
BCG Growth-Share Matrix
Business Policy and Corporate Strategy
Competitive Advantage
Core Competence
Diversification Strategy
Dynamic Capabilities
Excellence Characteristics
Firm Growth
First-Mover Advantages and
Disadvantages
Game Theory
Hypercompetition
Knowledge-Based View of the Firm
Modes of Strategy / Planned-Emergent
Organizational Effectiveness
Product-Market Differentiation Model
Recourse-Based View of the Firm
Resource Orchestration Management
Seven-S Framework
Six Sigma
Stakeholder Theory
Strategic Decision Making
Strategic Flexibility
Strategic Frames
Strategic Groups
Strategic Profiles
Strategy and Structure
Strategy-as-Practice
SWOT Analysis Framework
Tacit Knowledge
Upper-Echelons Theory
Value Chain

Human Resources Management
Attraction-Selection-Attrition Model
Behavioral Perspective of Strategic Human Resource Management
Career Stages and Anchors
European Model of Human Resource Management
High-Performance Work Systems
Human Capital Theory
Human Resource Management Strategies
Human Resources Roles Model
Knowledge Workers
Model of Occupational Types
Organizational Demography Model
Personal Engagement (at Work) Model
Protean and Boundaryless Careers
Strategic International Human Resource Management
Theory of Organizational Attractiveness
Theory of Transfer of Training

International Management and Diversity
Acculturation Theory
Cultural Attitudes in Multinational Corporations
Cultural Intelligence
Cultural Values
Diamond Model of National Competitive Advantage
GLOBE Model
High- and Low-Context Cultures
Institutional Theory of Multinational Corporations
Interactional Model of Cultural Diversity
Managing Diversity
Multicultural Work Teams
Organizational Demography
Social Identity Theory
Transnational Management

Managerial Decision Making, Ethics, and Creativity
Analytic Hierarchy Process Model
Bounded Rationality and Satisficing (Behavioral Decision-Making Model)

Brainstorming
BVSR Theory of Human Creativity
Componential Theory of Creativity
Decision Support Systems
Decision-Making Styles
Escalation of Commitment
Ethical Decision Making, Interactionist Model of Evidence-Based Management
Experiential Learning Theory and Learning Styles
Garbage Can Model of Decision Making
Image Theory
Interactionalist Model of Organizational Creativity
Intuitive Decision Making
Investment Theory of Creativity
Managerial Decision Biases
Moral Reasoning Maturity
Participative Model of Decision Making
Programmability of Decision Making
Prospect Theory
Stages of Creativity
Strategic Decision Making
“Unstructured” Decision Making

Management Education, Research, and Consulting
Academic-Practitioner Collaboration and Knowledge Sharing
Action Research
Analytical and Sociological Paradigms
Appreciative Inquiry Model
Bad Theories
Critical Management Studies
Engaged Scholarship Model
Evidence-Based Management
Large Group Interventions
Management (Education) as Practice
Multilevel Research
Narrative (Story) Theory
Organizational Development
Positive Organizational Scholarship
Process Consultation
Psychological Type and Problem-Solving Styles
Theory Development
Theory of the Interesting

Management of Operations, Quality, and Information Systems
Adaptive Structuration Theory
Decision Support Systems
Gantt Chart and PERT
Kaizen and Continuous Improvement
Lean Enterprise
Management Control Systems
Quality Circles
Quality Trilogy
Strategic Information Systems
Technology Acceptance Model
Technology Affordances and Constraints Theory (of MIS)
Theory of Constraints (TOC)
Total Quality Management

Management of Entrepreneurship
Discovery Theory of Entrepreneurship
Entrepreneurial Cognition
Entrepreneurial Effectuation
Entrepreneurial Opportunities
Entrepreneurial Orientation
Social Entrepreneurship
Strategic Entrepreneurship

Management of Learning and Change
Action Learning
Business Process Reengineering
Continuous and Routinized Change
Double Loop Learning
Experiential Learning Theory and Learning Styles
Force Field Analysis and Model of Planned Change
Learning Organization
Logical Incrementalism
Organizational Development
Organizational Learning
Process Theories of Change
Punctuated Equilibrium Model
Quantum Change
Strategies for Change

Management of Technology and Innovation
Architectural Innovation
Dual-Core Model of Organizational Innovation
Innovation Diffusion
Innovation Speed
Lead Users
Open Innovation
Patterns of Innovation
Product Champions
Profiting From Innovation
Sociotechnical Theory
Stages of Innovation
Technological Discontinuities
Technology Acceptance Model
Technology and Complexity
Technology and Interdependence/Uncertainty
Technology and Programmability
Technology S-Curve
Transfer of Technology

Management and Leadership
Attribution Model of Leadership
Authentic Leadership
Charismatic Theory of Leadership
Cognitive Resource Theory
Competing Values Framework
Contingency Theory of Leadership
Leader–Member Exchange Theory
Leadership Continuum Theory
Leadership Practices
Level 5 Leadership
Managerial Grid
Path-Goal Theory of Leadership
Servant Leadership
Situational Theory of Leadership
Substitutes for Leadership
Theory X and Theory Y
Trait Theory of Leadership
Transformational Theory of Leadership

Management and Social / Environmental Issues
Corporate Social Responsibility
Critical Management Studies
CSR Pyramid
Integrative Social Contracts Theory
Moral Reasoning Maturity
Social Entrepreneurship
Stakeholder Theory
Triple Bottom Line
About the Editor

Eric H. Kessler is the Henry George Professor of Management, and founding director of the Business Honors Program, in the Lubin School of Business at Pace University in New York City. As a management scholar, Dr. Kessler holds a PhD in organization management and international business; he has produced over 100 research papers and presentations that span a broad array of management issues and published three critically acclaimed management books: (1) Handbook of Organizational and Managerial Wisdom, (2) Cultural Mythology and Global Leadership, and (3) Management Theory in Action: Real World Lessons for Walking the Talk. As a management educator Dr. Kessler instructs courses and conducts developmental workshops on a range of management levels and topics; in addition he has worked as an executive educator, corporate speaker, and has led numerous global management field studies traveling across six continents. As a management professional, Dr. Kessler is a Fellow and Past President of the Eastern Academy of Management and a long-time member of the Academy of Management; he has served on several management journals’ advisory and editorial boards and has worked with a wide variety of large and small as well as private and government organizations. Dr. Kessler has received many academic honors and awards, is a member of Phi Beta Kappa, and has been inducted into national and international honorary societies in business, forensics, economics, and psychology.
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Introduction

The word manage, according to the *Oxford English Dictionary*, is derivative of the Latin *manus*, or hand and emerges from the Italian *maneggiare*, which refers to the handling or training of horses. Its use has since been expanded to represent a broader concern for the proper handling of things or people, particularly with regard to a company or organization. This is true across multiple levels of analysis. For example, at the most fundamental social unit, the individual, it can be said that people (to varying degrees) manage themselves. We formulate our goals, regulate our behaviors, and allocate scarce physical, emotional, and intellectual resources to our decisions and actions. Further to this, we frequently attempt to manage others; these could include our family, friends, colleagues, coworkers, cohorts, or competitors. We do this through efforts to motivate them, communicate with them, influence them, lead them, and resolve conflicts with them. People also attempt to manage their context and shape their environment; this might represent a group or team, project or venture, formal or informal organization, alliance or network, industry or institution, society or nation state, or perhaps even a transnational global movement. In doing so, there is a common thread to these actions that evidences unmistakable elements of “management”: orientation and direction, coordination and control, authority and responsibility, planning and design, and administration and implementation. Thus, in a sense, we are all inexorably managers regardless of whether we are given a business card with the formal title.

Not only does the reach of management run wide, but it also runs deep. That is to say, management is vitally important. It is with rare exception that our personal and professional activities need to be “managed”—implicitly or explicitly, internally or externally, indirectly or directly, proactively or reactively—to sustain efficient processes and achieve effective outcomes. However, highlighting something as important is quite different from saying that it is always done well. To the contrary we are all too often the victims, or perhaps the perpetrators, of poor management. It is simply not enough to cultivate advantageous resources and technologies, develop advanced skills and abilities, or construct superior capital and facilities. Who you are or what you possess (nouns) will only get you so far. We also need to pay attention to management dynamics (verbs). History is filled with countless examples of better managed “underdogs” leveraging their relatively meager means to upend better financed, entrenched, or equipped rivals. And in a world whose playing field has been characterized as increasingly “flat,” where resources, access, and opportunities are now more than ever evenly distributed, it is management that is frequently the key differentiator.

Management is also complex. Despite a long history of academic and applied investigations, there are no simple, comprehensive, universally applicable answers to its totality of challenges and conundrums. It should therefore be of little surprise that there are countless “theories” (loosely defined as well as loosely connected) of management. The study of management is almost as broad and diverse as its practice. It encompasses multiple levels of investigation, a wide array of subdisciplines, hundreds of journals, libraries of books, armies of consultants, an eclectic array of researchers and professionals, and diverse education and training programs. For example, focusing solely on the Academy of Management, the preeminent professional organization for management scholars, its ranks comprise nearly 20,000 diverse members from over 100 nations working in over 20 distinct and scarcely integrated academic divisions and interest groups, each with its own particular mores, models, and methodologies. Thus, even in this relatively specialized domain, we still come from different
management traditions, practice different management techniques, address different management issues, and speak different management languages—too often scarcely aware of where the “others” are coming from.

Moreover, even when educators artificially narrow the field to discuss a discrete management topic, they often superficially toss out the name of a theorist (Taylor, Simon, Weber, etc.) or make a sideways reference to a specific theory (needs hierarchy, total quality management, etc.) and move on, as if assuming their audience possesses the necessary familiarity to appreciate, evaluate, integrate, and appropriately apply its assumption-based, domain-specific, frequently nuanced insights for improving their particular set of circumstances. Lamentably, this is far from the truth, and as such, management theory more often than not obscures rather than elucidates. Our students, our clients, our practitioners of the craft too often emerge more confused than empowered by these conversations. We hear questions such as, “Which motivation theory should I use?” or “What international strategies work best?” as if any of these tools can be applied without exception or without complement. And more than this, we are regularly presented with a seemingly endless stream of new books and journal articles with the latest fads and theories-of-the-day, professing to have “the answer,” yet often scarcely appreciating the theoretical insights that form their foundations, only to ride a brief wave of popularity but fall flat in the end.

In summary, management theory is, on the one hand, (a) elevated by its pervasiveness and importance yet, on the other hand, (b) shackled by its dizzying, disconnected (dis)array of dimensions, perspectives, ideas, voices, and trends.

Rationale for the Encyclopedia of Management Theory

It follows from the previous discussion that a common “one-stop” resource for presenting the fundamental characteristics, constraints, explanations, and applications of core management theoretical models and concepts would be of great practical and scholarly use. To date, there is no single definitive source or rigorous, systematic academic collection of the fundamental theories that define the field of management. In response, SAGE Reference decided to publish this two-volume Encyclopedia of Management Theory (EMT). I am honored to serve as its general editor.

Herein is the intention of this project—an authoritative compendium of the global landscape of key frameworks that have stood the test of time and whose insights provide the foundation for examining and advising contemporary management practice. The EMT is designed to serve as a reference for anyone interested in understanding, internalizing, and applying classical as well as contemporary management theory. Drawing together an impressive team of researchers and educators, it examines the key theories and the theorists behind them, presenting them in the context needed to understand their assumptions, arguments, and strengths and weaknesses. In addition to interpretations of long-established theories, it also offers consideration of cutting-edge research as one might find in a handbook. And like an unabridged dictionary, it provides concise, to-the-point definitions of key concepts, ideas, schools of thought, and major movers and shakers.

For the purposes of this volume, a theory is defined as an ordered set of assertions that are predicted to hold true under defined instances. Ideally, theories should posit (a) factors, such as variables, concepts, or constructs, (b) that are related in some systematic way, (c) because of underlying psychological, economic, social, or other dynamics, (d) within temporal, contextual, or otherwise specified boundary conditions. Drawing from the entries Theory Development and Multilevel Research within this volume, we see management theory at its best about attempting to capture the who, what, how, where, and when but also the why to decode and influence a broad range of interdependent phenomena. Yet too often, theories are not well defined or structured. Too often, their explanations ignore critical contingencies. Too often, their central tenets are misunderstood or taken out of context so that they are misapplied, ignored, or overgeneralized. Too often, their baseline assumptions and historical development are underappreciated or obscured. Too often their relationships with complementary frameworks are underdeveloped. These must be corrected if our field is to meaningfully advance, guide research, integrate insights, and successfully contribute to practice. Moreover even among those precursory surveys of management “theories” that do exist, there are few if any filtration systems and
coherent distillations that apply a consistent formula to consider their elemental messages and relative importance. This shortcoming also must be remedied. To this end, we will use the following criteria for assessment: validity times impact. Validity: The theory has been substantially supported by research and has shown to be accurate in helping understand, explain, and predict management phenomena. Impact: The theory has significant implications for improving management practice and has generated viable applications to produce intended results.

**Organization of the Encyclopedia**

Inside the *EMT*, the reader will find over 280 signed, cross-referenced entries from an international array of respected management scholars that represent a broad-based coverage of major interest areas and perspectives in the field. Further to this, a “Reader’s Guide” was developed to group these entries thematically into the following categories that consider common management questions—yet often proposed different, albeit potentially complementary, answers:

1. What is/should be the nature of management and management thought?
2. How do you manage people’s personalities and perceptions?
3. How do you manage people’s motivations?
4. How do you manage interpersonal interactions involving communication, power and politics, and conflict?
5. How do you manage group composition, development, and teamwork?
6. How do you manage organizational structure, culture, and systems?
7. How do you manage environmental contingencies, networks, and institutions?
8. How do you manage strategic resources, frameworks, and processes?
9. How do you manage human resources practices, functions, and employee careers?
10. How do you manage within and across international cultures, climates, and other dimensions of diversity?
11. How do you manage decision-making rationality, ethics, and creativity?
12. How do you manage “management” education, research, and consulting?
13. How do you manage operational quality, logistics, and information systems?
14. How do you manage entrepreneurial thinking, creation, and engagement?
15. How do you manage learning, adaptation, and change?
16. How do you manage technology, knowledge, and innovation?
17. How do you manage leadership attributes, behaviors, and styles?
18. How do you manage social issues such as those concerning stakeholders, society, and the environment?

In addition, the *EMT* provides two appendixes that offer unique value for the reader:

- Appendix A (longitudinal): An abbreviated timetable of the “Chronology of Management Theory”—to appreciate the historical, cumulative development of theory within the field,
- Appendix B (cross-sectional): A delineation of “Central Insights” from the aforementioned encyclopedia entries—to encapsulate the major theoretical “take-aways” of the field.

**Structure of the Entries**

The structure of each individual entry is contingent on its placement in one of three groups, varying in length, based on validity and importance as determined by the editor and advisory board. For each of these categories, standardized author guidelines and checklists were developed that further differentiate this volume from other types of compilations.

Each entry begins with an opening paragraph (*Introduction*) that establishes a framework for the entry to clearly and concisely communicate its intention. It considers the following questions: Definition of the theory: What is the theory’s central purpose and premise? Domain of the theory: Why is the theory relevant to the topic of the encyclopedia (i.e., management)? Outline of entry: How will this article be structured?

The first and primary section of all entries (*Fundamentals*) describes the theory to systematically encapsulate its arguments. It considers the following...
questions customized to the particular nature of the topic: Content of the theory: What are the factors—core elements, variables, concepts, constructs, and so on—that make up the theory? Dynamics of the theory: What are the relationships—systematic ways in which the contents are related? Rationale of the theory: What are the underlying psychological, economic, social, and structural dynamics that explain the relationships? Domain of the theory: What are the temporal, contextual, or otherwise defined boundary conditions in which the theory holds? Context of the theory: What is the connection to similar theories and shared conceptions (general or midrange) of the phenomena?

For longer entries a subsequent section (Importance) offers an assessment of the theory to critically evaluate its validity and impact. It considers the following questions, again customized to the particular nature of the topic: To what degree has the theory been substantially supported by research and has proven accurate in helping to understand, explain, and predict management phenomena? How has the theory influenced management scholars and educators? To what degree has the theory provided significant implications for improving management practice and generated viable applications to produce intended results? How has the theory influenced managers?

For select theories that have been designated “anchor entries”—these are highlighted in the entry list with an asterisk—an additional section was requested that bridges the Fundamentals and Importance sections. Here a longitudinal examination (Evolution) was requested to dynamically trace its history and development. Significant discretion was allotted to consider in various lengths and approaches the following questions: What are the roots of the theory? What are the major changes, adaptations, tests, and adaptations to the theory that led to its most current form? What were the circumstances—economic, social, cultural, and so on—if any, that influenced its development, and what was their influence? Who are the people who contributed to its development and what was their contribution?

Each entry concludes with cross-references to other related EMT entries, to provide additional breadth to the discussion, as well as a list of approximately 5 to 10 supplementary resources (Further Readings), both seminal and contemporary, to provide additional depth to the discussion.

The EMT Team and Process

Numerous individuals were involved with the EMT project at different stages of the process. The Board of Advisors lent considerable expertise and insight to the selection, categorization, and structure of the volume. In many cases, they also wore the hat of entry(ies) author. They rank among the most esteemed luminaries in the management theory field, and I am grateful to them for their support, listed alphabetically: Jean Bartunek, Michael Hitt, Anne Huff, Paul Lawrence, Jeffrey Pfeffer, Andrew Van de Ven, and David Whetten. During the course of compiling the volume Paul Lawrence passed from this world—Paul was a treasured colleague (he was even gracious enough to serve on my doctoral thesis committee) and will be missed. A wonderful group of colleagues at SAGE Publications shepherded this project from conception to completion including acquiring editor Jim Brace-Thompson, developmental editor Sanford Robinson, reference systems coordinators Laura Notton and Anna Villaseñor, production editor David Felts, and marketing manager Carmel Schrire.

The selection of entries and authors for the EMT underwent a long, multiphase process. Feedback was solicited from numerous sources, including current and past officers of each Academy of Management division, editorial board members of several of the field’s most respected journals, conversations with respected colleagues, and input from the distinguished advisory board. In addition, searches of numerous management databases were conducted as well as reviews of core management research articles, texts, and compilations. From this process, topics were ultimately identified and authors were approached and contracted who were experts in these areas, many of them the principle investigators of the focal theories. Multiple iterations of each entry were drafted, reviewed, edited, revised, and copyedited. Whereas the great majority of authors delivered stellar entries, there were incidences of late drop-outs or quality concerns that necessitated us to remove an otherwise intended contributor or entry. Of course no process of this nature is perfect and there will undoubtedly be some omissions and limitations—as well as emerging research, perspectives, issues, and applications—that we will look to address in subsequent editions.

It should also be noted that within this volume some entries might be seen as more “theoretical”
than others. That is to say, there is variability in the extent to which theories can be said to embody what several have put forth are the criteria for a strong theory. In addition, some entries drill down more than others to focus on key concepts or constructs whereas others adopt a more holistic or macro view that entertains different theoretical explanations, categorizations, frameworks, patterns, or perspectives of a focal management phenomenon. Moreover, the reader will also find differences between some entries in their basic assumptions, paradigmatic foundations, intended purposes, and even general intellectual approach. A conscious decision was made to prioritize a path that was more rather than less inclusive; this allowed for a more complete encapsulation of the management theory landscape rather than one that was artificially condensed. Said another way, the volume attempts to avoid the unnecessary rejection of potentially valuable explanations, which could be relatively more dangerous in these circumstances than offering a broader range of theories that vary in their popularity or current level of support and that include potentially but not necessarily more relevant and/or less-compelling insights. In “managing” this trade-off, the intention is to put forth these contributions to management thought in an open and straightforward manner that includes an explicit element of critical review and also invites rather than presupposes consideration by the reader.

Suggestions for Using the EMT

As you wade into this volume it may be easy to become disoriented with the great variety of models and perspectives or perhaps vacillate between them becoming an advocate of the most recently read or most persuasively written entry. As editor it is my charge not only to organize, solicit, and shape the entries but also to try to integrate them in some metatological schemata as to bring the proverbial forest into focus without distorting the view of the trees. The EMT Reader’s Guide is helpful in this way by offering a thematic categorization of theories, but it should be seen as a beginning and not an end to the conversation. Because management is a relatively new and “soft” science, it is helpful to borrow from those who have walked a similar path—specifically, to consider lessons from the more seasoned domain of theoretical physics, a field that has also seen its share of luminaries and similarly struggled with the integration of diverse perspectives. Mindful of what Warren Bennis has termed “physics envy,” the following discussion selectively adapts two of the strategies communicated by Stephen Hawking that are particularly promising for management in advancing its theoretical precision and practical integration.

The “Trees”: Model-Dependent Realism.

One of the most useful tools for understanding the trees (i.e., individual theories) within the management forest can be extracted from what Hawking refers to in his 2010 book The Grand Design (New York: Bantam Books) as model-dependent realism. Per Hawking:

There is no picture- or theory-independent concept of reality. Instead we will adopt a view that we will call model-dependent realism; the idea that a physical theory or world picture is a model . . . and set of rules that connect the elements of the model to observations. This provides a framework with which to interpret modern science . . . . Different theories can successfully describe the same phenomenon through disparate conceptual frameworks. In fact, many scientific theories that had proven successful were later replaced by other, equally successful theories based on wholly new concepts of reality . . . . According to model-dependent realism, it is pointless to ask whether a mode is real, only whether it agrees with observation . . . . A model is a good model if it: 1) Is elegant, 2) Contains few arbitrary or adjustable elements, 3) Agrees with and explains all existing observations, 4) Makes detailed predictions about future observations that can disprove or falsify the mode if they are not borne out. (pp. 42–43, 44, 46, 51)

Let us unpack this. First, theories provide a picture of reality. They supply the categories to label phenomena as well as the map to interpret their relationships. For instance, if one is evoking Maslow’s model of reality, then a person’s motivations might be seen as striving to fulfill one unmet need or another—for example, internal esteem; alternatively, if one is using Vroom’s framework of motivation, then the same actions by the same person might be understood as hedonically attempting to better link outcome with valence. Therefore, it is imperative to recognize that our worldview is shaped by the theories that we employ. Whether we are liberated, or imprisoned, by them is another matter entirely and largely a fate of our choosing.
Second, that there is an evolutionary quality to theoretical development. This might take the form of successive improvements in the way that we see things, such as when new evidence is discovered or new applications are tested, or the advancement of wholly new paradigms for making sense of reality. Both cumulative as well as frame-breaking ideas populate the theoretical space. It is important to recognize not only the theoretical snapshots of management but the cinema and unfolding narrative of its story. Again, whether successive theoretical iterations represent positive enhancements or negative regressions is to be determined. We must be mindful that “newer” does not always mean better and “older” does not always mean classic.

Third, the veracity of management theory is ultimately decided on the shop floor and office space, not in the library or lecture hall. Independent of practical analysis and application, and outside of internal consistency, there is little compelling rationale to determine which competing model is “more real” than another. Management theories perpetuate or fade away (or at least they should) based on their realistic value. That is to say, their acceptance should be a function of the degree to which their predictions agree with and can shape observation. Fourth, and related to the above, the quality of a theoretical modeling is a function of its usefulness to managers. Models are more effective if they are simple, straightforward, broad-based, predictive, and provide tools for action that, if followed, will increase management efficiency and effectiveness. Certainly this is easier said than done, and the tension between criteria recalls Dr. Einstein's pondering of necessary trade-offs that (paraphrasing) a theory can only be two of the following: simple, accurate, and comprehensive. It is therefore important to acknowledge that management is ultimately a professional field and must be judged by the degree to which it offers elucidating perspective, helpful tools, and practical guidance for using them.

Therefore, the first opportunity/challenge for the reader of this volume is to recognize the theories themselves, their language and their limits, and reflect on how they help explain, predict, and impact management dynamics and outcomes. My advice would be the following: Seek to truly understand, on their own terms, the essential insights of these frameworks. Try to customize their lessons and see how they might relate to your particular circumstances. Extract their most useful implications—for becoming a stronger person, for engaging in more successful interactions, and for constructing more facilitative contexts and mind-sets—to increase your management capacity. Yet do not be satisfied with the information and encapsulated knowledge communicated by the entries; combine them with sound judgment and prudent action to translate your enhanced potential into management “wisdom” for achieving personal and professional success. It is my hope that the EMT facilitates this.

The “Forest”: (Management) M-Theory. Keeping our focus on the lessons of physics, but now looking not at the trees themselves but at how they relate to each other in the forest (i.e., management theory literature)—or pushing the metaphor farther, perhaps how they can be assembled into a terrarium—Hawking gives us a second vehicle: M-Theory:

M-Theory is not a theory in the usual sense. It is a whole family of different theories, each of which is a good description of observations only in some range of physical situations. It is a bit like a map. As is well known, one cannot show the whole of the earth's surface on a single map. The usual Mercator projection used for maps of the world makes areas appear larger and larger in the far north and south and does not cover the North and South Poles. To faithfully map the entire earth, one has to use a collection of maps, each of which covers a limited region. The maps overlap each other, and where they do, they show the same landscape. M-theory is similar. The different theories in the M-Theory family may look very different, but they can all be regarded as aspects of the same underlying theory. They are versions of the theory that are applicable only in limited ranges. . . . Like the overlapping maps in a Mercator projection, where the ranges of different versions overlap, they predict the same phenomena. But just as there is no flat map that is a good representation of the earth's entire surface, there is no single theory that is a good representation of observations in all situations. . . . Each theory in the M-theory network is good at describing phenomena within a certain range. Wherever their ranges overlap, the various theories in the network agree, so they can all be said to be parts of the same theory. (pp. 8, 58)

Let us extract the elements most relevant for our volume. Theories are like maps. They are more or less accurate depictions of a delineated area or
landscape. As such, they have limited ranges of application, which are separated by explicitly acknowledged or implicitly active boundary conditions. As Dr. Hawking argues, and most management scholars would readily agree, there is at this time no single theory-of-everything (TOE) that is a good representation of all observations in all situations. Similarly, as inferred by numerous EMT entries, it is no easy task capturing the complex configurations of factors that combine to influence organizational success and differentiate the sage management scholar or continuously successful manager from their less distinguished counterparts. It is therefore necessary to “stitch together” (a la image or photo stitching) these depictions to see how each image relates to one another and, in the process, gain a better panoramic perspective of the overarching vista. This suggests that theories need not be seen as necessarily competing visions of reality but instead as representing potentially complementary mappings of different networked components within a multifaceted and multi-leveled reality. Areas of correspondence represent prospects for theoretical synergy. Areas of divergence represent prospects for theoretical reconciliation and extension (recalling dialectical arguments that a meeting of a thesis and its antithesis has the potential to yield synthesis). Ultimately, they are all contributors to a broader, more inclusive map; that is, they may all be part of the same “Management M-Theory.”

What might a Management M-Theory look like? Perhaps overlapping elements of critical and functional perspectives, humanistic and bureaucratic designs, external and internal forces, operational and innovative/entrepreneurial processes, tacit and algorithmic recipes? Integrated individual, interpersonal, group, organizational, environmental, and strategic analyses? Synchronized psychological, sociological, anthropological, political, and economic engines? Amalgamated information-, knowledge-, resource-, and wisdom-based lenses? A harmony of increasingly “high-definition” static management snapshots and dynamic management cinema? The actualization of a Management M-Theory is beyond the scope of this brief introduction. What is important is the general strategy that its idea represents for making sense of the 280-plus entries herein. Therefore, the second opportunity/challenge for the reader is to understand how the entries—both within and across reader’s guide categories—relate to, inform, and influence each other so as to provide the templates for a deeper, more comprehensive comprehension of management theory and an integrated, more effective application of its principles. My advice would be the following: Uncover the underlying theories nested within or derivative of complementary frameworks. Seek to truly understand the specific conditions in which their arguments apply. Actively explore how their focal domains interact with related models and where their conclusions might coalesce. Further, and borrowing from ancient but still relevant philosophical debates, consider how their individually articulated management (lower-case t, situation-specific) truths might be reconciled to help approximate overarching management (capital T, overarching) Truth. It is my hope that the EMT facilitates this.

In summary, as I conclude this introduction, let me share with you that it has been a wonderful experience constructing the Encyclopedia of Management Theory. It has provided me with an opportunity to revisit (and apply) many concepts and explanations, reconnect with valued colleagues and connect with new ones, and learn much from the process. My invitation to you, the reader, is to look at the contents of this volume in a variety of ways. Take a basic look—familiarize yourself with the entries and acquire fundamental information about their models and modes. Take a deep look—really dig into the entries and suggested readings to analyze their logic and comprehend the images and principles that they advance about management reality. Take a hard look—assess the validity and importance of the theories (i.e., the trees) and critically evaluate their usefulness in explaining, predicting, and influencing management dynamics. Take a progressive look—move beyond consumer to use them as a platform for buttressing and extending our field. Take a broad look—see how they relate to each other (i.e., the forest) and might be integrated into a bigger, more holistic picture. Take a reflective look—think about how they can help you on a customized path of personal development and growth. Finally, take a practical look—actively apply them in an integrated, synergistic paradigm to manage for success.

Eric H. Kessler
ACADEMIC-PRACTITIONER COLLABORATION AND KNOWLEDGE SHARING

Academic-practitioner collaboration refers generally to relationships between academics and practitioners in which they share and/or co-construct knowledge with the purpose of creating positive scholarly, individual, and/or organizational outcomes. There are disagreements regarding the extent to which such collaboration can truly succeed. Nevertheless, attempts to create such collaboration take a wide variety of forms, several of which are described below. Academic-practitioner collaboration is particularly important in management. This is due in part to management faculty members serving as sources of managerial training and the multiple consultants who attempt to create bridges between academia and practice. It is also due to the fact that management is by its nature an applied field. It is also important for management theorizing, because the type of knowledge that arises from joint academic-practitioner research can be used for theory testing and building. This entry will include discussion of some barriers to successful collaboration and focus on several methods developed to accomplish it. These methods consist of multiple types of collaborative research approaches as well as bridging institutions, roles, and journals.

Fundamentals

There is ongoing disagreement among academics about the extent to which faculty can truly share research knowledge with management practitioners. There is also ongoing disagreement regarding whether rigorous scholarly research can or should be relevant to managers and other practitioners and whether or not rigor and relevance are mutually exclusive. Further, while both academics and practitioners theorize, the types of theorizing they do differs; academics attempt to create generalizable theorizing and knowledge, while practitioners attempt to create knowledge aimed at helping them succeed in their local situations.

Thus, there is recognition that academics (with regard to their research) and practitioners (with regard to their practice) typically have different aims and different communication systems. This difference is pronounced when the scholarship that academics conduct is based on a positivist epistemological framework. Some scholars believe that the communication systems associated with scientific research are so different from communication systems associated with successful practice that it is not possible to transfer knowledge between them.

Regardless of these tensions and disagreements, multiple means exist for trying to foster collaboration between academics and practitioners. These means rely on the assumption that knowledge truly can be transferred between, or translated across, academic-practitioner boundaries. But in order to accomplish successful translation, most of the means are also based on the assumption that there must be sharing of tacit, not just explicit, knowledge between academics and practitioners. This implies personal relationships between academics and practitioners.
Means that have been developed for academic-practitioner collaboration include multiple research approaches, including action research, insider-outsider team research, Mode 2 research, design science, engaged scholarship, and evidence-based management. The means also include types of bridging functions, including institutions, such as centers, bridging roles, and bridging journals.

**Collaborative Research Methods**

*Action research.* Action research is a research method developed originally in the 1940s by Kurt Lewin and colleagues. As originally designed, it involves participants in a social setting collaborating with an intervener, often an external researcher, in diagnosing problems in the setting, jointly constructing ways of assessing the problems and their causes, designing ways to ameliorate these, and assessing the impacts. The original assumption was that in addition to ameliorating the problems, scholarly writing about what had occurred would contribute to academic knowledge. Several means of conducting action research have developed in recent years, including action inquiry, action science, participatory action research, and participatory research. In recent decades, at least within management, focus has tended to be less on scholarly outcomes of action research than on impacts within organizational settings. Also in recent decades, there have been developments of action research, such as appreciative inquiry, that are based on beginning with the positive in a system rather than problems.

*Insider/outsider team research.* Insider/outsider team research is based on the recognition that insider members of a social setting, whose personally relevant world is under study, typically inquire about the setting differently than external researchers who are primarily concerned about developing generalizable knowledge. In insider/outsider team research insider members of a setting under study collaborate as coresearchers with external researchers throughout the stages of a research project. The assumption is that such heterogeneity in viewpoints and perspectives will contribute to more robust theorizing. Following this approach, insiders and outsiders determine together what should be studied about a setting, develop methods to carry out the study, collect and analyze data, and then communicate the findings in appropriate ways to both academic and practitioner audiences. While such research has been effective in many instances, it may evoke ethical dilemmas, especially if participants in a study do not feel comfortable about insider members of the setting knowing their views. It also requires insider members who are interested in contributing to scholarly knowledge in order to be effective.

*Mode 2 research.* Briefly, Mode 1 knowledge is what is typically created as a result of scientific research conducted by researchers within one discipline and not expected to have any direct relationship with practice. Mode 2 knowledge, in contrast, is transdisciplinary and emphasizes solutions to practical problems. Characteristics of Mode 2 research in management include knowledge produced in the context of application, transdisciplinarity and diversity among those involved in conducting the research project (including practitioner involvement throughout the project), and decisions about the quality of the research conducted based on how well it responds to the needs of all participants, not just scholars. This is potentially a valuable approach to research, although there are not many examples published in scholarly journals.

*Design science.* Herbert Simon distinguished between natural sciences and artificial, or design, sciences. He argued that natural sciences are concerned about how things are, while design sciences (including management) are concerned about how things ought to be. Thus, the purpose of design science should be to develop effective means of action. Some have referred to effective means of action as tested and “grounded” “rules” that enable managers and other practitioners to successfully address problems that they regularly encounter in their social settings. Following a design science approach, practitioners, likely collaborating with an external researcher, identify concerns and conduct real time experiments with various types of action that address these concerns. The academics work with the practitioners to compare the effectiveness of the various practices and to determine the underlying reasons that particular practices are more or less effective. On the basis of this analysis, academics and practitioners together develop rules for how to act in response to problems identified. Because design science is particularly concerned with
improving practice, the validity of the knowledge developed is considered to be pragmatic. Whether the rules developed help practice is more important than whether they contribute to scholarly knowledge.

**Engaged scholarship.** Andrew Van de Ven developed engaged scholarship as a participative form of research aimed at obtaining the advice and perspectives of researchers, users, clients, sponsors, and practitioners to understand complex social problems. Various stakeholders may participate in one or more of four research activities that include grounding problem formulation in the real world, developing plausible alternative theories to address research questions, designing and carrying out research to evaluate the alternative models, and applying the research findings to resolve the issue being addressed. Van de Ven considered that informed basic research, informed collaborative research (such as insider/outside team research), design research, and action research can all illustrate engaged scholarship as long as multiple sets of stakeholders have an opportunity to influence the research and its outcomes. The expectation is that these outcomes will benefit both scholarly knowledge and practice.

**Evidence-based management.** Building on earlier initiatives in medicine and social science, evidence-based approaches have begun to be developed for management. Evidence-based medicine refers to the development of systematic syntheses of what is known or not known about particular phenomena related to some area of medical practice. The syntheses typically build primarily on scholarly publications but also sometimes include skilled clinical judgment. Evidence-based management refers to translating principles based on best evidence into organizational practices. Thus, it also begins with the development of systematic syntheses of what is known about particular organizational topics and how what is known might inform effective action. It aims to help “evidence-based managers” make decisions that are informed by social science and organizational research and thus to close gaps between management research and practice.

For collaborative research to occur, organizations need to make participants (perhaps managers themselves, perhaps other organizational members) available to co-conduct research with appropriate academics. They also need to take steps to guard the confidentiality of individuals who contribute data. With regard to evidence-based approaches, they need to develop the capability of using evidence in practice.

**Bridging Methods**

In addition to these research approaches, there are several bridging functions that serve as links between academia and practice and are aimed at enabling collaboration. These include certain institutional settings, some individual roles, and some journals that consciously aim to bridge academic scholarship and practice.

**Bridging institutions.** Some centers have been created whose purpose includes linking scholarship and practice. Some that are particularly well known in management are the Center for Creative Leadership and the Center for Effective Organizations (CEO) at the University of Southern California. CEO, for example, conducts research that explicitly involves organizations in assessing how they can be more competitive and effective. It also conducts executive education programs based on the research that has been jointly conducted.

**Bridging roles.** There are some individual roles that bridge scholarship and practice. One of these roles is that of organization development practitioner, someone who, ideally, is familiar with both scholarly literature pertinent to organizational change and organizational processes as they occur in real time and who can comfortably speak in the languages of both academia and practice. Another role is that of the practitioner scholar. People who identify themselves as such typically work in organizational settings but also have advanced scholarly training, perhaps in executive doctoral programs.

**Bridging journals.** Some journals attempt to bridge scholarship and practice. One example is *Industrial and Organizational Psychology: Perspectives on Science and Practice*. This journal includes focal papers on topics of interest to both scholarship and practice. Both academics and practitioners respond to the papers. Further, both academics and practitioners publish in journals such as *Action Research* and the *International Journal of Action research*. In
Acculturation Theory

addition, *HR Magazine* includes some translations from academic writing to practitioner writing. At the time of this writing, repositories of evidence related to management practice are being developed. A new journal, the *International Journal of Management Reviews*, has begun publishing systematic reviews of research on particular organizational topics, and ways are being developed to provide practitioners access to academic databases.

Managers can take several steps to foster bridging methods. They can, for example, participate in the activities of bridging institutions, and they can read and, potentially, contribute to bridging journals. In some cases it would be appropriate for them to obtain executive doctorates.

**Importance**

The great majority of the methods described here have appeared and evolved over the course of the past quarter century, and illustrations of such methods expand in frequency yearly. Based on this growth, academic-practitioner collaboration is clearly growing in importance. There continue to be new approaches developed for collaborative research, and an increasing number of academic researchers are recognizing the value to be found in collaborating in research with organizational members.

In terms of bridging initiatives, the number of executive doctoral programs is expanding globally, and more and more managers are involved in evidence-based initiatives. In addition, evidence-based approaches have had impacts on teaching; more evidence-based information is being developed for classes and as reference materials.

*Jean M. Bartunek*

**See also** Action Research; Engaged Scholarship Model; Evidence-Based Management; Management (Education) as Practice; Organizational Development; Tacit Knowledge; Theory of Transfer of Training

**Further Readings**


**Acculturation Theory**

When people of different cultures interact in an organization they bring with them different cultural beliefs and behaviors. These need to be understood and incorporated into organizational policies and practices in order to achieve effective operations. Since all countries (and most organizations) are now culturally diverse, this need for mutual understanding poses challenges that are often rooted in the outdated belief that culturally different individuals and groups entering the organization are the only ones who need to change. However, the achievement of mutual accommodation requires that all participants accept the need to change; this is a prerequisite for effective operations in culturally diverse societies. This entry begins with an outline of the meaning of the concept and process of *acculturation*, and continues with a discussion of the various ways in which this process is carried out (termed *acculturation*...
Acculturation Theory

strategies). The long-term outcome of this process is a variable degree of mutual adaptation among the individuals and groups in contact. The entry concludes with some implications.

Fundamentals

The core meaning of acculturation refers to the process of cultural and psychological change that takes place as a result of contact between cultural groups and their individual members. Such contact and change occur for many reasons (such as colonization and migration); it continues after initial contact in culturally plural societies, where ethnocultural communities maintain features of their heritage cultures over generations; and it takes place in both groups in contact. Adaptation refers to the longer term outcomes of the process of acculturation. Occasionally, it is stressful, but usually it results in some form of mutual accommodation between groups and among individuals. The initial interest in acculturation examined the effects of European domination of colonial and indigenous peoples. Later, it focused on how immigrants (both voluntary and involuntary) changed following their entry and settlement into receiving societies. More recently, much of the work has been involved with how ethnocultural groups and individuals relate to each other, and how they change, as a result of their attempts to live together in culturally plural societies. Nowadays, all three foci are important areas of research, as globalization results in ever-larger trading and political relations. The concept of psychological acculturation refers to changes in an individual who is a participant in a culture-contact situation, being influenced both directly by the external (usually dominant) culture and by the changing culture (usually nondominant) of which the individual is a member. There are two reasons for keeping the cultural and psychological levels distinct. The first is that in cross-cultural psychology, individual human behavior is viewed as interacting with the cultural context within which it occurs; hence, separate conceptions and measurements are required at the two levels. The second reason is that not every group or individual enters into, participates in, or changes in the same way; there are vast group and individual differences in psychological acculturation, even among people who live in the same acculturative arena.

A framework that outlines and links cultural and psychological acculturation, and identifies the two (or more) groups in contact, provides a map of those phenomena which need to be conceptualized and measured during acculturation research. At the cultural level, researchers need to examine key features of the two original cultural groups prior to their major contact. It is essential to understand this precontact variation among the groups that are now attempting to live together in a larger society. New settlers bring cultural and psychological qualities with them to the new society, and the existing society also has a variety of such qualities. The compatibility (or incompatibility) in such qualities as religion, values, attitudes, and personality between the two cultural communities that are in contact needs to be examined as a basis for understanding the acculturation process that is set in motion in both groups. It is also important to understand the nature of their contact relationships. It may be one of domination of one group over the other or of mutual respect or hostility. Finally, at the cultural level, researchers need to understand the resulting cultural changes in both groups that emerge during the process of acculturation. No cultural group remains unchanged following culture contact; acculturation is a two-way interaction, resulting in actions and reactions to the contact situation. In many cases, most change takes place in nondominant communities. However, all societies of settlement (particularly their metropolitan cities) have experienced massive transformations following years of receiving new settlers. The gathering of this information requires extensive ethnographic, community-level work. These changes can range from minor to substantial and from being easily accomplished through to being a source of major cultural disruption.

At the individual level, there is a need to consider the psychological changes that individuals in all groups undergo and to examine their eventual adaptation to their new situations. These changes can be a set of rather easily accomplished behavioral shifts (e.g., in ways of speaking, dressing, and eating), or they can be more problematic, producing acculturative stress as manifested by uncertainty, anxiety, and depression. As noted by Ward (2001), adaptations can be primarily internal or psychological (e.g., sense of well-being or self-esteem) or sociocultural (e.g., as manifested in competence in the activities of daily intercultural living). The first refers to “feeling well,”
the second to “doing well.” Much of this research on acculturation can be found in The Cambridge Handbook of Acculturation Psychology (2006).

**Acculturation Strategies**

As noted above, not every group or individual engages the acculturation process in the same way. The concept of acculturation strategies refers to the various ways that groups and individuals seek to acculturate. These variations have challenged the assumption that everyone would assimilate and become absorbed into the dominant group. At the cultural level, the two groups in contact (whether dominant or nondominant) usually have some notion about what they are attempting to do (e.g., colonial policies). At the individual level, persons will vary within their cultural group (e.g., on the basis of their educational or occupational background).

Four acculturation strategies have been derived from two basic issues facing all acculturating peoples. These issues are based on the distinction between orientations toward one’s own group and those toward other groups in the larger society. This distinction is rendered as a relative preference for maintaining one’s heritage culture and identity and a relative preference for having contact with and participating in the larger society along with other ethnocultural groups. These two issues can be responded to on attitudinal dimensions, varying along bipolar dimensions ranging from positive to negative preferences. It has now been well demonstrated that these two dimensions are independent of each other. Hence, these two dimensions are presented orthogonally in Figure 1. On the left side are the orientations held by members of ethnocultural groups; on the right side are the views held by members of the larger society.

Orientations to these issues intersect to define four acculturation strategies. For members of nondominant ethnocultural groups, when these individuals do not wish to maintain their cultural identity and seek daily interaction with other cultures, the assimilation strategy is defined. In contrast, when individuals place a value on holding on to their original culture, and at the same time wish to avoid interaction with others, then the separation alternative is defined. When there is an interest in both maintaining ones original culture, while in daily interactions with other groups, integration is the option. In this case, there is some degree of cultural integrity maintained, while at the same time seeking, as a member of an ethnocultural group, to participate as an integral part of the larger social network. Finally, when there is little possibility or interest in cultural maintenance (often for reasons of enforced cultural loss), and little interest in having relations with others (often for reasons of exclusion or discrimination), then marginalization is defined.

The original definition clearly established that both groups in contact would change and become acculturated. The four terms used above described the acculturation strategies of nondominant peoples. Different terms are needed to describe the strategies of the dominant larger society and are presented on the right side of Figure 1. Assimilation when sought by the dominant group is termed the melting pot. When separation is forced by the dominant group, it is segregation. Marginalization, when imposed by the dominant group, is exclusion. Finally, for integration, when diversity is a widely accepted feature of the society as a whole, it is called multiculturalism. With the use of these concepts and measures, comparisons can be made between individuals and their groups, and between nondominant peoples and the larger society within which they are acculturating.

The acculturation strategies (including the ideologies and policies) of the larger society, as well as the preferences of nondominant peoples, are core features in acculturation research. Inconsistencies and conflicts between these various acculturation preferences are common sources of difficulty for those experiencing acculturation. This can occur when individuals do not accept the main ideology of their society (for example, when individuals oppose immigrant cultural maintenance in a society where multiculturalism is official policy or when immigrant children challenge the way of acculturating set out by their parents). Generally, when acculturation experiences cause problems for acculturating individuals, researchers observe the phenomenon of acculturative stress, with variations in levels of adaptation.

**Importance**

Much research has shown that those seeking the integration way of acculturating (i.e., maintaining a double cultural engagement) achieve the best psychological and sociocultural adaptations, while those who are marginalized have the poorest outcomes. Assimilation and separation strategies are typically associated with intermediate levels of
Acculturation Theory

The example of immigrant youth clearly illustrates this pattern.

The implications of knowing about and using the three core concepts (acculturation, acculturation strategies, and mutual adaptation) are that in culturally diverse organizations, these ideas, and the research based upon them, impact on how and how well management and employees engage each other across cultural boundaries. In particular, knowing the benefits of pursuing and achieving integration, the integration strategy (defined here as the joint involvement in both cultural contexts) is far-reaching for those engaged in intercultural living. Managers and their families who are posted to another country need to be informed of the advantages of the integration acculturation strategy, both

Source: Author.
prior to departure (through training programs) and during their sojourn (through social and cultural supports). Employees (and their families) who have immigrated to the society can also benefit from being made aware of the benefits of integration. In both cases, there is much to be gained for managing all levels of personnel by creating programs to train and support those who are experiencing acculturation.

*John W. Berry*

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**Further Readings**


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**ACHIEVEMENT MOTIVATION THEORY**

The achievement motive, as originally framed by David McClelland, refers to a recurrent desire to excel. This achievement motivation theory is important for predicting management success and as such is an essential part of management theory. Such motivation is especially found in managers who are striving for personal accomplishment. As David McClelland suggested, managers scoring high on achievement motivation are managers who are more self-confident, who enjoy taking calculated risks, and who are actively pursuing activities that involve initiating structure, as compared with managers scoring low on achievement motivation. In this entry, the focus is first on how achievement motivation can predict management success. Achievement motivation can be studied from an individual perspective—how it works out for managers. As will be shown, the Thematic Apperception Test (TAT) can be used to measure achievement motivation. Next is an argument that it is also possible to study it from a cultural perspective, and in our globalizing world, it will be increasingly important to know how achievement motivation works out in different cultures. In the final portion of this entry, the focus will be on issues related to acquired motives and how these need be taken into account when designing global selection and assessment practices of managers.

**Fundamentals**

Achievement motivation goes back to McClelland’s theory on acquired motives and has its roots in Henry Murray's needs theory. McClelland’s theory focuses on a set of clearly defined motives as they relate to workplace behaviors.

In the acquired motives theory, three basic motives are distinguished: the achievement motive, the affiliation motive, and the power motive. Achievement motivation (nAch) arises from the desire to do something better or more efficiently, to solve problems, or to master complex tasks. The need for affiliation (nAff) comes from the desire to establish and maintain friendly and warm relationships with others. The need for power (nPower) emanates from the desire to control others and to influence their behavior. Whereas managers scoring high on need for power seek to influence others, managers scoring high on achievement motivation are more interested in how well they personally are doing. In this entry, the focus is specifically on one of the three motives from this theory: the achievement motive.

Achievement motivation can indeed predict managerial success later in time. In a longitudinal study, David McClelland and Richard Boyatzis found that...
the motive to achieve was associated with success at higher levels of nontechnical management. More than 200 managers from the American Telephone and Telegraph Company filled out a survey measuring all sorts of variables, including achievement motivation, and correlated these results with the levels of promotion attained after 8 and 16 years. Indeed, achievement motivation was associated with success. However, the results were not really straightforward. Only at lower managerial levels was it shown that achievement motivation was more important than the ability to influence people to predict managerial success. An explanation for this could be that success at the lower managerial levels is more dependent on individual contributions than it is at the higher managerial levels. Conversely, at the higher managerial levels, upward mobility is more dependent on demonstrated ability to manage others than on achievement motivation.

In developing his theory of human motivation, it was stressed that motives are acquired and can be learned. Hence, David McClelland refers to a language of achievement. In training programs for managerial effectiveness, it is thus important to have managers learn to think and perceive themselves as persons with a high achievement potential. That is, managers need to learn to use the language of achievement so that it signifies their work experiences. Moreover, managers can learn to distinguish achievement goals from other motives to boost their personal effectiveness.

Achievement motivation is not only an individual level construct. Over the past three decades, there has been growing interest in whether (achievement) managerial motivation differs across cultures. For such a concern, studies need to go beyond individual-level analyses of motives and have to examine the cultural embeddedness (at the societal or national level) and aggregate level personality differences underlying acquired motives. Studies of this nature are important because in an increasingly global environment, it is helpful to examine how and under what circumstances motives develop and are nurtured across cultures and how they become salient within organizations and teams. Furthermore, cross-cultural adjustment of employees in the global context may depend on the match between specific individual (achievement) motives on the one hand and personality profiles and cultural embeddedness in countries on the other hand. As a global working environment becomes the norm, cross-cultural studies of this type become increasingly important and research may help to improve our understanding of the development of acquired motives in different cultures.

In his 1961 *The Achieving Society*, David McClelland extended achievement motivation from the individual to the societal level by arguing that some societies place a far greater emphasis on achievement than others. In addition, he asserted that societies characterized by high achievement motives enjoy higher levels of entrepreneurship and economic development. Despite the intuitive appeal of McClelland’s arguments, Geert Hofstede did not conceptualize or measure a corresponding cultural dimension in developing his model of cross-cultural work values. However, more recently, the Global Leadership and Organizational Behavior Effectiveness research project, or GLOBE study, indeed included a measure—performance orientation—that refers to achievement motivation. This dimension is defined as the extent to which national cultures encourage and reward people for superior performance and excellence. Societies that score high as opposed to low on performance orientation tend to emphasize results more than people; reward performance, value assertiveness, competitiveness, and materialism; expect demanding targets; reward individual achievement; and have appraisal systems that emphasize results. Given this conceptualization and its roots in the notion of the achievement motive, the GLOBE study researchers explored the extent to which these constructs are related using the societal level measure of achievement motivation and the GLOBE Performance Orientation Society Practices and Society Values scales. Hetty van Emmerik and colleagues, rather than testing achievement motivation exclusively at the societal level, employed a cross-level model to explore the relationship between societal-level performance orientation and individual-level achievement motives. Specifically, a reciprocal relationship between individual level achievement motives and performance orientation was suggested. That is, the level of achievement motivation reflected by a society relates to the emphasis placed on performance achievements over time. At the same time, because McClelland’s theory focuses on motives that are acquired through learning, the emphasis that a society places on performance is posited to shape the achievement needs.
of its members. Indeed, consistent with expectations, evidence was obtained that managers from cultures that place a high emphasis on performance have relatively high achievement motives. Management scholars are encouraged to broaden this stream of research to consider other characteristics that may account for the emergence and influence of achievement motivation in different cultures.

McClelland’s work on assessing motives has employed the Thematic Apperception Test (TAT) or Picture Story Exercise (PSE). The TAT is a projective measure designed to assess the implicit motives of individuals. The PSE, a refinement of the TAT, was developed by David McClelland to assess individual differences in human motivation.

In administering the TAT, respondents are asked to view pictures and write stories about what they see. For instance, in one case, David McClelland showed executives a photograph of a man sitting down and looking at family photos arranged on his workdesk. Typically, respondents are presented six or more standard TAT cards. Such TAT cards can depict different situations, for instance, “an architect at a desk,” “women in a lab,” “ship captain,” “a couple by a river,” “trapeze artists,” and “nightclub scene.” When presenting the TAT pictures (called cards), a set of questions guide the respondent in writing a short story. The stories are then coded and the implicit motives are assessed. Although the TAT has received criticism and is time consuming to both administer and score, it was argued convincingly that when the TAT is properly administered, the scores have adequate test-retest reliability.

All TAT stories are to be scored for achievement, affiliation, and power motive imagery by specifically trained scorers with materials precoded by experts and according to the TAT protocol. The TAT protocol is the tool used to interpret the motives revealed via the stories of the respondents. After scoring, the values can be summed for each of the three motives for the six pictures and used for individual managerial assessment.

Proponents of the TAT have argued that the TAT is a valuable measure of achievement motivation. The TAT and PSE have been used at length in many cross-cultural studies, and these measures can be meaningfully used to understand and predict human behavior. However, opponents of the TAT have argued that the TAT is not a valid measure. To solve this controversy, William Spangler conducted two meta-analyses on 105 selected empirical research articles. He found that correlations between TAT measures of need for achievement and a variety of outcomes were on average positive. Moreover, these associations were sufficiently large for mobility-related outcomes, such as career success, and larger than for survey-based designs.

Importance
McClelland’s theory has been used extensively in management and leadership studies of motivation. Many studies have been conducted within managerial, entrepreneurial, and leadership contexts that look at the importance of motives. In addition, the acquired motives theory has also been used in various studies in a cross-cultural context. Consistent with the ideas of acquired needs theory, extensive empirical evidence indeed has demonstrated that achievement motivation is positively related to employees’ and managerial job performance, organizational commitment, extrarole behavior, and job involvement. Together, these empirical findings provide support for the notion that achievement motivation is a drive to achieve and excel and may produce higher levels of job involvement, commitment, entrepreneurship, and intra- and extrarole performance at the individual level.

It is important to stress that acquired motives are based on the conceptualization of motives as being learned. Thus, they are posited to vary in strength among individuals as a function of their socialization and as being rooted in a specific culture. Culture shapes the values and norms of its members; these values are shared and transmitted from one generation to another through social learning processes of modeling and observation. Conceptualizing the motives as learned also means that the motives are sensitive to (leadership) training.

Today, mergers across borders, collaborations, and relocation decisions are becoming common experiences for many employees, creating challenges to employee integration within the organization as well as knowledge transfer. However, what has not changed is that people still are attracted to work environments that are compatible with their personality characteristics and that match their own pattern of acquired motives. National culture does matter, and there are likely to be certain circumstances where it matters more and others where it matters less. By
considering the interactive effects of national culture and acquired motives, such as achievement motivation, more insight can be gained on how, when, and why motives vary across cultural contexts.

Acquired motives, such as the achievement motivation, are important and to be taken into account when designing global selection and assessment practices of managers. A recent study of Hetty van Emmerik and colleagues showed that acquired motives can be a useful part of personnel selection within a global context. Achievement motivation and other motives then should be considered when designing global selection and assessment practices. Given the relationships of acquired motives to a variety of behavioral and social outcomes, the assessment of motives may be particularly useful in assessing reactions to different situations thus providing a way for organizations to identify potential areas of conflict or concern. However, more work is still welcome on the unexplored relationships between universal motives, such as achievement motivation, and associations with effectiveness in the work situation.

Hetty van Emmerik and Merel M. S. Kats

See also Authentic Leadership; Big-Five Personality Dimensions; Cultural Values; Leadership Practices; Multilevel Research; Social Power, Bases of; Trait Theory of Leadership; Type A Personality Theory

Further Readings


**ACTION LEARNING**

Action learning is a learning approach to developing organizational members’ competencies both in content knowledge and process skills in the process of solving real, difficult management issues using teams. Action learning is among the most widely used interventions for leadership and organizational development. The popularity of action learning has been driven by related, tangible outcomes and relevance to real organizational issues using teams in organizations. In this entry will be provided the fundamentals of action learning, the importance of action learning research and practice, and a list for further reading to better understand action learning.

**Fundamentals**

Action learning’s founding father Reginald Revans first used the term “action learning” in published form in 1972, though he had already been implementing action learning since the 1940s. A prime difficulty in researching action learning is the lack of an agreed-upon definition. Revans did not define action learning but described it in terms of what it is not (e.g., a case study, consulting, or a task force), because he believed that to define it would constrain its meaning. As a result, many definitions and variants of action learning have been used, including business-driven action learning, critical action learning, work-based learning, self-managed action learning, and virtual action learning.

Various frameworks have been used to analyze action learning projects; however, many of these focus on the combination of two consistent themes: real, work-based issues and team learning. Action learning is based on the pedagogical notion that people learn most effectively when working on real-time problems occurring in their own work settings. Participants in action learning environments learn as they work by taking time to reflect with peers (learning teams), giving team members opportunity to offer insights into each other’s workplace problems. And participants learn best when they reflect together with like-minded colleagues, “comrades in adversity” in Revans’s terms, on real problems occurring in their own organizations.

Based on our collective experience in action learning practice and research, we have identified five
core elements of action learning that, if seamlessly intertwined, would promote participants’ learning and deliver quality solutions as intended. First, action learning is based on team learning. The key to action learning involves participants and teams. A team consists of five to six participants because the team size should ensure diverse perspectives and prevent free riders. Participants’ jobs, educational backgrounds, experience, cultures and nationalities, and genders should be factored in to realize diversity in action learning.

Second, action learning revolves around a project to maximize the effectiveness of learning. A project should be something that adds value to the organization and should be difficult for participants to solve because adult learners learn best while solving real world problems. There are two types of projects in action learning: individual projects and team projects. In an individual project, participants provide insightful questions, advice, and information to assist other participants with a problem in the problem-solving process and to enhance their learning. In a team project, participants collectively work on one project to solve issues at work for the organization’s competitive advantage.

Third, participants enhance their competencies both in content knowledge (information and know-how) and process skills (varied techniques and tools) in the action learning process. Participants learn both explicit and tacit knowledge that are required to solve problems in order to identify customer’s needs through the benchmarks of best practices developed by competitors and industries as well as by internal experts. Participants, through teamwork, also learn how to use varied tools and techniques for communication, decision making, problem solving, and conflict management as well as for leadership skills. Many companies in the world, therefore, use action learning for talent development and for preparing future leaders.

Fourth, action learning encourages questioning, reflection, and feedback to generate transformational learning and effective solutions through problem solving in the process. Participants ask questions and reflect on what to know, how to improve teamwork, how to better solve problems, and how to maximize learning in the process. Participants also ensure the quality of learning and the process through peer and external feedback. With respect to the relationship between questioning and knowledge in action learning, Revans emphasized that learning (L) is maximized if programmed knowledge (P) is combined with questioning (Q). In his action learning formula, “L = P + Q,” questioning insight is more important than knowledge acquisition. The key to learning is in finding the right question to ask. Questions that help people to get started along this path include: What are we trying to do? What is stopping us from doing it? What can we do about it?

Fifth, internal or external learning coaches are used to provide help for those who are not familiar with problem-solving processes, questioning, reflection, and feedback. Learning coaches are those who oversee the quality of team processes and learning through the use of effective communications, collective decision making, problem solving, and conflict management tools and techniques. Practitioners should limit a learning coach’s role to be a process facilitator so that she or he does not intervene in the learning team’s content knowledge.

A critical issue involved in action learning regards the balancing act of action and learning in the action learning process. Revans, in 1998, emphasized the need for conceptual and practical balance between action and learning in his well-known remark, “There is no action without learning and there is no learning without action” (p. 83). The real value of action learning that differentiates it from other action strategies is a pragmatic focus on learning for the sake of problem solving. Through a balanced process of action and learning, people often develop skills associated with how to better learn from their experiences. An unbalanced approach to action learning, therefore, is not productive, as action without learning is unlikely to return fruitful longer term results, and learning without action does not facilitate change.

In reality, action learning programs have a tendency either to foster action at the expense of learning or to be oriented to learning instead of balancing learning with action. Ideally, “action” (i.e., outcomes and solutions) in action learning is not the goal, but it should be the means by which learning is achieved. As of late, a greater emphasis has been put on learning-oriented action learning. This latter finding is consistent with that of previous studies indicating that action learning practices are more often perceived to be successful when aimed toward personal growth and learning but not necessarily conducted toward organizational
learning and development. Without knowledge about organization-level development and change, action learning practitioners may not consider ways that action learning efforts can be applied to their specific job and organizational contexts.

Despite the lack of an agreed-upon definition of action learning, there are certain basic concepts to be recognized no matter what form of action learning practitioners want to deliver. At the same time, there must be cultural and contextual constraints so that action learning needs to be continually revised and modified. For example, the use of a learning coach that Revans strongly rejected in action learning may be necessary in other cultures where a learning coach is very welcome in the action learning process. The active use of a learning coach fundamentally violates one of Revans's basic principles on the role of a learning coach. Revans made it clear that only in the early stage is a learning coach needed to launch action learning but she or he must eventually get out of the action learning team to avoid getting in the way. However, learning coaches—who are selected from the talent pool—can enhance their facilitative leadership by tackling organizational issues as well as guiding participants. Selecting competent learning coaches is a key success factor for action learning. As a result, we face a tough challenge that has to strike a balance between continuing Revans's gold standards and customizing action learning in order to meet the requirements of cultural contexts.

**Importance**

The action-learning balance issue stands out not only as a major consideration for action learning but also as an important lens through which to examine the action learning literature. An examination of balanced action learning approaches can be achieved through evaluation of action learning processes, participant experiences, and the manner in which action learning is framed in the literature. Individuals and organizations are aided by action learning that leads to more effective communication, work climate, cooperation, shared vision, and development at the organization level. When used appropriately in organizational contexts, balanced action learning can be a powerful approach for management development.

When it comes to the improvement of management practice, the impact of action learning can be summarized as follows: First, action learning overcomes fundamental limitations of existing experiential learning methods (e.g., business simulation and role playing) that separate the place where learning occurs and the place where the learning is applied from a learning transfer perspective. Action learning provides a realistic, practical alternative because participants tackle real problems at work in the learning process; it can be more cost-effective in terms of the organization’s training investment.

Second, action learning is an outstanding tool for establishing a learning organization through sharing organizational members’ experience and know-how. Action learning presents practical approaches for realizing a learning organization or knowledge management in complicated and changing management environments, which will eventually lead to the organization’s and organizational members’ competitive advantage.

Third, action learning fundamentally changes managers’ existing views of learning and of the participants who are attempting to solve the problem. Instead of depending on management consultants to solve problems at work for the organization, organizational members (managers and employees) solve the problems by themselves and build their competencies in the learning process. Participating companies using action learning would slowly decrease their dependence on external consultants.

There are two implications for managers and human resources (HR), both of whom are participating stakeholders in action learning. HR no longer teaches content knowledge, know-how, and information but plays the role of a learning coach or facilitator who would guide and encourage learners to identify problems, use problem-solving tools, and enhance competencies and skills. Participants will build problem-solving and leadership skills in ways that (a) help them learn the problem-solving process by themselves and do not rely on external consultants, (b) allow them to not just propose solutions but also to implement what they’ve proposed, (c) help them build competencies through questions and reflection, and (d) allow them to enhance their leadership skills by experiencing effective teamwork in the process.

Current practice-based approaches to action learning focus only on face validity for action learning theory; therefore, wider consideration regarding current approaches and their impact is required.
Future research into the processes and outcomes of action learning that strikes the right balance is likely to serve as a catalyst for its diffusion and adoption. Also required is the need to see the cultural differences of action learning practices in order to consider both the continuation of Revans’s gold standards and the customization of action learning in diverse contexts.

Yonjoo Cho and Hyeon-Cheol Bong

See also Action Research; Learning Organization; Organizational Development; Organizational Learning; Quality Circles; Strategic Groups

Further Readings


**Action Research**

Action research (AR) refers to a cycle of data-based problem solving that emerges from the process of scientific investigation. In contrast to traditional scientific research, where the main challenge is to study and understand the problem, action research examines the problem and then develops interventions to solve that problem. Emphasis is placed on collaborative inquiry between researchers and participants that involves a continuously unfolding interplay between data gathering and diagnosis, feedback and joint action planning, action (solution) and assessment, continued data gathering and diagnosis, additional feedback and continued joint action planning, revised actions (solutions), and so forth. The underlying philosophy is that change is successful when the groups and individuals who are involved in a change play an active role in the decision-making process that determines what that change might be and how it might be implemented. Sometimes referred to as participatory action research, the technique is intended to advance theory and practice, contributing to human insights into and understanding of broader organizational dynamics while simultaneously enabling us to improve specific situations. This entry examines the fundamentals underlying the AR process, how it has evolved over the years, and its ongoing influence and importance for contemporary management practice.

**Fundamentals**

Action research is a holistic approach to problem solving rather than a single method for collecting and analyzing data. The data-gathering phases in the AR process typically involve a combination of methods, from surveys and questionnaires, to interviews and observations, to unobtrusive measures (e.g., archival measures, such as turnover rates, absenteeism, quality statistics). Based on the understanding that all data-collection approaches have strengths and limitations, AR typically involves triangulation across methods and forms of data. For example, while surveys and questionnaires are useful to gauge the attitudes, beliefs, and values of a particular population, since they are typically self-administered, there is no way to probe the information more fully. Thus, follow-up interviews, though more expensive and time consuming, can be used to probe and examine attitudes and opinions about various issues, which can often help to clarify causal relationships. At the same time, what people might say they would do in a particular situation might not necessarily correspond to their actual behavior. Thus, observing people in their work-related roles can provide
further insight into those behaviors. Observation, however, is subject to researchers’ own perceptual biases—in essence, what humans “see” is influenced by their own feelings and biases. Thus, given these potential problems and limitations, an underlying key is that AR researchers should complement their data-collection efforts, checking the findings generated by one data-collection method with the data presented by another. Emphasis is placed on creating as complete a picture as possible on specific organizational situations, generating data on what organizational members think, feel, and do; drawing out how they work and the tasks they perform and their outcomes; and noting the relationships they develop with their coworkers.

Action research is not intended as a one-time event, which ends when a particular problem is solved and change is brought about. Instead, it is seen as an ongoing process to enhance organizational functioning by generating knowledge that is both valid and vital to the long-term well-being of organizations and their members. It is a progressive problem-solving approach that enables organizational members to develop a deeper understanding of the ways in which a variety of social and environmental forces interact to create complex organizational patterns. By involving participants in the entire process, from the initial design of the project through data gathering and analysis to initial conclusions and actions arising out of the research, AR designers create a foundation for continuous improvement and development. Each iteration adds to our understanding of the group or organization, the way in which it operates, challenges it faces, and ways of achieving its envisioned future.

A key tenet of AR is that human systems can be truly understood and changed only when one engages members of that system in the inquiry process. Within the AR paradigm, knowledge is understood as socially constructed, as assumptions, goals, actions, and outcomes are seen as located within complex social systems. Knowledge, therefore, is inherently social and embedded in practice. It is only through continuous dialogue and reflection among participants that the realities of organizational life can be uncovered and improved.

In addition to AR at the group or organization level, it can also be applied to individual learning. First-person AR takes place within oneself, where the researcher applies the process to him- or herself, examining and reflecting on one’s own skills, abilities, knowledge, and identity. This process—raising such questions as Who am I? What frameworks are influencing my thinking? What is happening within me?—is captured in Donald Schön’s 1983 notion of the “reflective practitioner,” where the researcher develops the ability to reflect both on and in practice.

AR research is embedded within a system of values—for example, self-awareness, integrity, collaboration, commitment, authenticity, and empowerment—and the process used to create greater convergence between the values we as researchers espouse and those we enact in practice. Underlying the core shared values in the AR process is respect for others’ knowledge and insight and the ability of participants to understand and address issues and challenges facing them and their organizations.

In helping to formulate principles of intervention, action research has long served as a core part of the foundation for the theory and practice of organization development (OD). The goal is to enhance group and organizational effectiveness, creating the basis for positive change and healthy work places. Through continuous questioning and reflection—for example, by asking, What is causing the problem? over and over again—the process facilitates the ability of participants to go beyond the tendency to deal with symptoms of problems and move toward the root problem itself. Once this is determined, appropriate interventions—from human process (e.g., team building, intergroup confrontation meetings) and human resource management (e.g., goal setting, performance appraisal) interventions to technostructural (e.g., cross-functional task forces, work redesign) and strategic (e.g., open-systems planning, search conference, large-scale change) interventions—can be determined, tested, and revised as necessary.

Over the past several decades, the AR process has been well documented in a broad range of institutional settings, from industrial workplaces and postindustrial offices to community associations, schools, hospitals and the clergy. It has also influenced the development of a range of related intervention techniques, from action learning and clinical inquiry to community engagement initiatives and appreciative inquiry as well as a general shift to doing research with people rather than simply doing research for or on them.
Evolution

Action research has a complex history with contributions from an array of fields and social science domains, including education, psychology, sociology, and cultural anthropology, and a number of traditions within management and organizational research, including T-groups, sociotechnical systems and Eric Trist’s work with the Tavistock Institute, and workplace democracy initiatives. The AR method itself has its roots in Kurt Lewin’s seminal work on social change during the 1940s as he sought to improve intergroup relations. Lewin stressed the role that research should play in providing the basis for social action, guiding the resolution of social and organizational issues in concert with the individuals and groups experiencing those issues. He conceptualized a science of action based on an iterative and collaborative process of creating change (identifying and solving a problem) through planning, data gathering, action, assessment (fact finding) of that action, feedback to participants, and then using that insight for further planning and action. Emphasizing the application of scientific inquiry in examining both general laws of behavior (group life) and the diagnosis of specific situations, Lewin’s work reflected the essence of what is today referred to as actionable knowledge, linking theory development with practical knowing as a basis for improving group and organizational situations and performance. Embedded in this approach is Lewin’s conceptualization of the change process, initially “unfreezing” the situation (establishing the need for change, overcoming inner resistance), moving or changing it (influencing new behaviors through cognitive restructuring, re-education), and then “refreezing” the intended change in its broader social context (integration of those new behaviors into social and organizational relationships).

As classical action research was further developed in the 1960s and 1970s, the process developed a basic set of cyclical patterns, embodying the ongoing interaction between behavioral science researchers and their clients, stressing collaboration on identifying problems, collecting valid information on those problems, and analyzing that data to better understand the challenges faced by the organization and its members. Building on Lewin’s earlier work, Chris Argyris and colleagues developed the notion of action science, distinguishing between espoused theory, which is conscious and something we are able to articulate when asked (e.g., describing behaviors that we want to emulate), and one’s theory-in-use (i.e., those views and perspectives that actually shape our behavior, which we are not fully conscious of because they are so ingrained in us). Focus continued to be placed on change experiments involving real problems in actual social systems, examining a specific issue, seeking to offer assistance to the participants, working with them to resolve the issue, and generating broader insights that would further develop our theories and understanding of group and organizational life. The active and conscious participation of the groups and individuals in the system became more pronounced, especially in terms of their role in planning, data collecting and analyzing, determining specific courses of action, reviewing outcomes, learning from the experience (e.g., what worked, what didn’t work), and then revisiting initial plans, further data collecting and analyzing, and so forth.

As our understanding of the underlying process has continued to evolve over the past 30 years, some proponents have suggested that action research reflects more of a life philosophy than intervention technique per se, a theory of social science based on an ongoing commitment to collaborative learning and design, combining action, research, reflection, and reaction in a spirit of co-inquiry. Building on the fundamental principle of collaboration, emphasis is placed on dealing openly with conflict, drawing out its root causes and creating a basis for truly transformative actions. While much of the AR process focuses on past behaviors and events, especially as a way of understanding the present, emphasis is placed on the future and how an understanding of where we are and how we got there can serve as a basis for purposeful action moving forward.

Current practice emphasizes the crucial nature of the partnership between the client and change agent, a spirit of collaborative learning that permeates the relationship, and the processes through which they interact. Focus is also being increasingly placed on the influence and importance of generating and understanding local tacit knowledge as well as an openness and willingness to examine underlying assumptions in the system.

Today, AR practices can best be thought of along a continuum, ranging from the traditional or classical approach of joint problem solving to appreciative
inquiry (AI) and its focus on envisioning an ideal future and building on organizational successes (instead of problems), working with the best that groups and organizations have to offer. Described as a “family of practices,” variations on the AR model also include action learning (focused on learning and developing through reflection on one’s experience while attempting to solve problems in one’s own organizational setting), action science (analyzing and documenting patterns of behavior and their underlying rationales in creating causal links and formulating strategies to achieve desired outcomes), and clinical inquiry (when researchers enter an organization at the organization’s request, working with the organizational system to enable successful change). Building on a critique of action research as focused on solving organizational problems, for example, appreciative inquiry emphasizes capturing and building on what is already successful in organizational life, creating generative insight for transformative action.

**Importance**

One of the ongoing challenges in management and organization research is the lingering tension between academic rigor and managerial relevance, undertaking studies that fulfill both the conceptual and methodological demands of scientific inquiry with the practical needs of organizations and their members. Within this context, AR can be seen as helping to close this rigor-relevance gap in management and organizational research. Distinctions, for example, have been made between positivist (“Mode 1”) and constructivist (“Mode 2”) approaches to research, in which the former emphasizes theory building and testing within the confines of a particular discipline and the latter emphasizes cogenerated knowledge produced in the context of practice. The underlying differences are significant for thinking about organizational research, from the detached, neutral, and context-free nature of Mode 1 research to the engaged, reflexive, and context-embedded nature of Mode 2.

The ideal underlying the AR paradigm reflects Mode 2 research, working collaboratively to create a foundation for both organizational and personal change, with the underlying understanding that theory should not only inform practice but that it can also be generated through practice. As a theory itself, action research is most useful when it is put into practice, attempting to bring about positive organizational change in specific situations. High-quality action research reflects several key characteristics, including the intention of the researcher to effect change in an organization, the understanding that the specific project itself has broader implications beyond the intervention per se, and that the intervention will be used to elaborate or develop theory while being useful to the organization. Theory, in essence, informs the design of the intervention and how it is developed in practice. The process itself is embedded in high standards of rigor and relevance in creating theory as well as empirical testing of relevant propositions within the context of that theory.

One of the keys to the AR process is evaluation, focused on knowing the extent to which (a) intended outcomes were achieved and (b) whether they actually solved the initial problem or concern. The evaluation process, serving as feedback, can also be used to change methods of intervention, suggest alternative ways of approaching the problem, or potentially alter the entire research design. Although validity issues often remain—for example, was the change and its outcomes caused by the change intervention or were other factors responsible (internal validity) and to what extent is the intervention and its outcomes generalizable to other organizational situations (external validity)—the AR process allows for ongoing theory testing and refinement while generating case-specific findings.

As an influential approach to organizational intervention and theory testing, AR is embedded in transparent procedures for decision making, intertwined with a deep respect for humanistic values and democratic ideals, the need to empower group and organizational members as a basis for learning and action, and collaborative theory building and organizational practice. Given today’s increasingly turbulent, global environment, the need to understand and appreciate diverse cultures and contexts—including understanding how our own social and cultural orientations play out in the broader global context—have become increasingly important. The 21st century will continue to demand innovations in theory, methods, and interventions to deal with the ever-growing dynamic complexity of human systems. Action research can guide that process. Through AR, organizational members can become researchers—and people learn best,
and more willingly apply what they have learned, when they do it themselves, producing knowledge and action that is directly useful to the group or organization. In essence, AR is a guide to practical action from which all managers and organizations can benefit.

Anthony F. Buono

See also Academic-Practitioner Collaboration and Knowledge Sharing; Action Learning; Appreciative Inquiry Model; Force Field Analysis and Model of Planned Change; Organizational Development; Process Consultation; Strategies for Change; Tacit Knowledge

Further Readings


**ACTOR-NETWORK THEORY**

Having origins in studies of science, technology, and society (STS), actor-network theory (ANT)—or the “sociology of translation”—is an increasingly popular sociological method used within a range of social science fields. This entry provides a review of ANT, which gains much of its notoriety through advocating a sociophilosophical approach in which human and material factors are brought together in the same analytical view. In attempting to comprehend complex situations, ANT rejects any sundering of human and nonhuman, social and technical elements. The early work of Michel Callon, for example, warns of the dangers of “changing register” when we move from concerns with the social to those of the technical. The methodological philosophy is that all ingredients of sociotechnical analysis be explained by common practices.

**Fundamentals**

A key ANT notion is that of the heterogeneous network. John Law, in 1992, describes this as “a way of suggesting that society, organizations, agents and machines are all effects generated in patterned networks of diverse (not simple human) materials” (p. 380). Law suggests that, while entities, in their broadest sense, are usually conceived of as having stability and uniqueness, ANT, in contrast, advocates that they are essentially a result achieved when different heterogeneous elements are assembled together. As such, the ANT approach suggests that things take form and acquire attributes as a consequence of their relations with others. As ANT regards entities as produced in relations, and applies this ruthlessly to materials, it can be thus understood as a “semiotics of materiality.”

As under ANT entities always exist in networks of relations, this approach suggests that it is not possible to conceive of actors as in some way separable from networks, and vice versa. Following Michel Callon, an actor network is “simultaneously an actor whose activity is networking heterogeneous elements and a network that is able to redefine and transform what it is made of” (Callon as qtd. in Farias & Bender, 2010, p. 315). This is so because the activities of actors and networks are interdependent. For example, all attributes usually ascribed as human (thinking, loving, acting, etc.) are generated in networks comprising materially heterogeneous networks that either pass through or have ramifications beyond the body.

In this way, a central feature of ANT is to explain how “ordering effects”—such as devices (e.g., aircraft),
Actor-Network Theory

organizations (e.g., laboratories), agents (e.g., managers), and even knowledge (e.g., relativity theory)—are generated. Its major focus, at least in its original formulation, is to investigate how entities are performed and kept stable. As a consequence, ANT analyzes the strategies through which entities are generated and held together. It tries to unravel the forces that keep actors “as one,” showing in the process how they are networks which need to be reproduced “moment by moment.”

Motivated by such concerns, ANT implies that organizations and their components are effects generated in multiple interactions, rather than existing merely in the order of things. Organization is perceived as continuous and unfinished, precarious and partial—a permanent process that generates more or less stable effects, a heterogeneous emergent phenomenon, and a verb. Analyzing organization(s) in this form—stressing that the noun organization can exist only as a continuous result of organizing—challenges what mainstream organization structure approaches usually accept as given or taken-for-granted. Thus, analyzing organizing via ANT is to attempt to address by which means a diffuse and complex system composed of humans and nonhumans becomes networked. For this approach, organizations are outcomes and products of continuing process—relations and practices that are materially complex and whose ordering can only be addressed, locally and empirically, as “in the making.”

To analyze “ordering in the making” (to quote John Law), ANT has deployed concepts such as immutable mobiles and action at a distance. Immutable mobiles have the capacity to “fix” knowledge and allow it to be disseminated far beyond its point of origin. They represent, for instance, lengthy processes of translating information (e.g., on location in an ocean, a territory’s size and shape, virus behavior) into objects that can be carried while retaining shape (e.g., maps, spatial coordinates, sketches, graphics).

By extension, the possibility of acting at a distance implies “control at a distance” and relies on the alignment of documents, devices, maps, and so on. In so doing, it relies on establishing a materially heterogeneous network, one that permits movement and immutability, simultaneously allowing something previously unknown to become acted upon and controlled. Both of these notions—immutable mobiles and acting at a distance—were central to well-known early ANT case studies, such as the history of Portuguese maritime expansion and contemporary scientists at work. These were case studies which subsequently influenced a number of early ANT studies on organization, accounting, and information, as in work by Brian Bloomfield and Robert Cooper—studies that suggest issues of organization and control have long been at the heart of ANT.

A final key concept deployed in ANT-inspired analysis is translation, or the work through which actors modify, displace, and translate their various and contradictory interests. For Michel Callon, translation is the mechanism by which things take form through “displacements” and “transformations”—such as when actors’ identities, the possibilities of their interaction, and the limits of their maneuver are negotiated and delimited. Put basically, translation processes see entities that are, traditionally, categorically differentiated transformed into ones that are in some ways analytically equivalent, thus, representing one of the main epistemological tools used to analyze the establishment of actor-networks.

Evolution

The key ANT notion of translation indeed evolves from the early writings of Michel Callon in which he offers a description of this process. For him, translation is composed of four different “moments”—problematization (or the “interdefinition of actors”), interesssement (or “how allies are locked into place”), enrollment (or “how to define and coordinate roles”), and the mobilization of allies (or “who speaks in the name of whom?” and “who represents whom?”). Drawing implicitly or explicitly on this way of portraying translation, a number of case studies on management and organizational issues have been conducted together with a series of kindred studies on information systems and information technology. These studies have appeared regularly in journals such as the Journal of Management Studies, Organization Studies, and Organization.

A detailed description of translation in Callon’s writings, however, can sound rather prescriptive for a reflexive-processual approach, such as ANT. More characteristic perhaps is Bruno Latour’s subsequent view that the ANT reflects a philosophy which aims to analyze ordering as complex outcomes of multiple materials, has a strong relational focus that
suggests a kind of material semiotics, and declares that a specific ordering process is but one possibility among many. Proposing general rules or aspects of how translation takes place can be seen as imposing a particular view of how actors get assembled into networks, this being particularly problematic when such a model is replicated in case studies. Such a method therefore seems alien to one of the key ANT mandates, namely, the need to follow actors without imposing preconceived templates or definitions on them. The evolution of ANT studies has seen the approach criticized for offering what seems to be a “simplistic” way of portraying ordering processes, notably in work by Peter Miller and Olga Amsterdamska. This critique can be clearly linked to translation notions, which appear to provide evidence for a framework that can portray many different cases without “needing adjustment,” that is, in terms that appear to explain almost everything from vaccines (in Latour’s work) to failed aircraft projects (in Law’s research). Without considering how sociological translations can differ, it fails to address any variation among processes of ordering. It has been argued that studies based on the translation notion can, on the one hand, fail to address how the links that constitute translation are made, while on the other, assume similarity among different links thus limiting ANT’s capacity to grasp complexity.

As scholars adopting an ANT position have drawn heavily on the translation notion to theorize aspects of organizing, such studies may, therefore, have been underscored by the idea that organizing processes in a variety of empirical settings can be accounted for by simply following Callon’s four “moments” recipe. As a result, instead of being thoroughly and richly explained, a variety of specific organizing processes are described (as Peter Miller has suggested) in a “nice and tidy” way, thus, oversimplifying what needs to be explained. Not surprisingly, some writers argue that ANT has often been used as methodological description—as a way to describe and label different actors in a given context. By arguing that actor-networks become irreversible once translation is accomplished, ANT is accused of producing a deterministic approach to networks, as noted by Andrea Whittle and Andre Spicer. Similarly, Vicky Singleton argues that the relative stability of networks depends, not on their coherence, but on their incoherence and ambivalence, issues that have been generally neglected in early ANT accounts.

Leigh Star and James Griesemer argue, further, that as translation is from the viewpoint “of one passage point” and this point is usually the manager, the entrepreneur, and the scientist, then this model can lead to a managerial bias, which seems to put ANT in opposition to perspectives that are nonmanagerial and nonperformative (as Critical Management Studies claims to be).

The implication is that key ANT notions lead to a singular representation of ordering at the same time that complexities and differences are disregarded. As such, it is argued by Andrea Whittle and Andre Spicer that this is problematic for the development of “critical” perspectives that seek to explore all the complexities associated with relations that establish order, especially those related to power. As Daniel Neyland suggests, “discussions of ANT and work using ANT has forged the kind of fixed location, well-known theoretical moves, and status as an obligatory point of passage that ANT previously sought to avoid” (2006, p. 30). In effect, not only does ANT proffer several problematic notions, but also, its applications tend to be noncritical. As Jan Harris argues, “Latour’s theory has often been reduced to ready acronyms and the unproblematic application of set terms or processes to a given field of study” (2005, p. 176). Consequently, ANT has been accused, as Andrea Whittle and Andre Spicer suggest, of providing an analysis of organization(s) that “naturalizes” organizations themselves.

This simplistic view of organizing has also consequences in terms of how otherness has been addressed in ANT works. Nick Lee and Steve Brown suggest that ANT became a metalinguistic formulation into which any sequence of humans and nonhumans could be encoded. As such, it became a “final vocabulary” that covered everything and risked producing “another ahistorical grand narrative,” and Steve Hinchliffe suggests that as a totalizing system, ANT leaves no space for otherness or noncategories—it fails to account for difference, leaving to a problematic view of politics, with clear consequences in terms of whether ANT can provide a critical analysis of management and organizations.

Finally, although ANT research has been accused on the one hand of resembling aspects of Marxism and on the other of sharing characteristics with fascism, it has more readily been charged with avoiding a political stance altogether. Olga Amsterdamska, for
example, suggests that ANT analyzes the strengths of alliances that make networks but rarely the character of them. This sees ANT concerned with questions of how networks are established in terms of relations, but not with whether these relations are characterized by ethical or unethical means. Donna Haraway argues similarly that as ANT rarely asks for whom the hybrids it analyzes “work,” it neglects the role played by inequality in the production of sociological accounts. As such, ANT’s seemingly balanced and symmetrical sociotechnical explanations tend to overlook, or even avoid, questions of politics. Further, it has been argued that ANT fails to address how “political” categories, such as gender, race, class, and colonialism, are established; in other words, these categories are not static and a priori but operate as historical modes of conditions that affect relations. Leigh Star, also, discusses ANT’s lack of political engagement. For her, even though ANT describes “heterogeneous engineering,” it fails to acknowledge that heterogeneity tends to be different for those who are privileged and those who are not. For organization theorist Mike Reed, similarly, ANT ignores how opportunities are unequally distributed in society. And Andrea Whittle and Andre Spicer argue that ANT tends to assume rather than problematize what motivates action and which purposes it serves; it also appears to reproduce, instead of challenge, the networks it describes. In so doing, ANT has been accused of being politically neutral, with critics suggesting it is not an appropriate approach to develop a critical case analysis of organizations.

**Importance**

Despite such criticisms, for management and organization theory and research, ANT is important because of the novel, relativist approach it offers to the analysis of social and technical phenomena. ANT’s suppositions about the transient material-semiotic character of such phenomena see judgments about truth and falsity, good and bad, and right and wrong treated as relative to the context in question. In its early formulations—for example, in the writing of Michel Callon—ANT relativizes cultural differences in assuming, somewhat controversially, that all elements in a network—human and nonhuman—can and should be described in similar analytical terms.

When we consider, for example, the nature of *actants* (human and nonhuman actors) in an actor-network, we assume they take the shape they do by virtue of their “relative” interactions with one another. In its various formulations, ANT exemplifies many of the assumptions of this relativist—or perhaps better, relationist—epistemology. This is reflected in the treatment of multiple material-semiotic actors, or the view that the technical and social coproduce each other, with such analysis being relational both in theoretical and empirical terms. In other words, epistemologically, ANT has been used to conceptualize, simultaneously, relations between (material) things and (semiotic) concepts. When such assumptions are reflected practically in fieldwork, the interactions that researchers examine in an organization involve relations between people, ideas, and technologies, which together can be understood to form a network. As John Law has suggested, entities take their form and acquire their attributes as a result of their relations with other entities. Under ANT, such actor-networks are always contextual and processual phenomena: As they exist only through their continuous making and remaking, it is relations that need to be repeatedly performed for such networks not to dissolve.

ANT is important in that it also advances what, for management and organization studies, can be seen as a novel approach to analyzing human agency—a decentered view, notably one in which the social and technical are constituted relationally through simultaneous symbolic and material systems. Under ANT, the human subject appears deprived of the logocentric authority it possessed when analytically “present.” In his 1994 work, *Organizing Modernity*, for example, Law discusses how notions of “decentring of the subject” and “heterogeneous materials” inform his “commitment to relational materialism” and thus how his study of a scientific laboratory emphasizes the distributed or heterogeneous character of agency. Discussing *Organizing Modernity* elsewhere, he suggests that theoretically “an organization,” a noun, is best not understood as an organization, a noun, at all but rather as a verb, that is, as a process, a continuing process of movement. *Organizing Modernity* is thus a plea to move from nouns to verbs, from things to processes, specifically processes of “ordering.” Instead of the laboratory representing an essential phenomenon privileging human existence and
intention, Law suggests this organization represents a materially heterogeneous set of arrangement processes implicated in and implicating people while also including and producing nonhuman elements such as documents and codes—thus agency does not exclusively belong to people.

Finally, ANT is important for organizational research in advancing prospects for reflexive methodology. In ANT we find reflexivity expressed both in theorizing and accounts of organizational research. For the former, reflexivity perhaps attains its highest profile in work of Bruno Latour and signally his analysis of the production of scientific facts in Science in Action, a 1987 work devoted as much to ontological and epistemological concerns as to the empirical study of technology. Elsewhere, Latour discusses reflexivity in his debate with Ulrich Beck on “reflexive modernization,” a discussion which sees Latour explain the unintended consequences and side effects of modernization and how they “reverberate throughout the whole of society” as unruly. Closer to home, in organization studies, Cynthia Hardy and colleagues have deployed ANT to reflexively investigate the role of the researcher and the research community in the production of a research subject, in this case “the refugee.” This line of research reveals not only the actions of actors in the refugee system but also, reflexively, their own activities as researchers, as well as those of the broader research community. Above all, the ANT concept of translation (after Michel Callon) is deployed to explore the role of actors in the process of social construction that produced refugees as a subject of academic study.

**John Hassard**

**See also** Analytical and Sociological Paradigms; Critical Management Studies; Dialectical Theory of Organizations; Social Construction Theory; Structuration Theory

**Further Readings**


### Adaptive Structuration Theory

Adaptive structuration theory (AST) is concerned with the implementation and use of information and communication technologies (ICT) in groups and organizations. Proposed by Marshall Scott Poole and Gerardine DeSanctis, AST posits that the impacts of ICTs on group and organizational processes and outcomes depend on the structures incorporated in the technology and on the structures that emerge as users attempt to adapt the technology to the tasks at hand. The theoretical grounding of AST can be traced to a number of scholars focused on structuration theory, particularly Anthony Giddens. This entry introduces structuration theory and then
discusses concepts added by AST, including the spirit and features distinction and appropriation. Following this, factors that shape structuration are delineated. Finally, the significance of the theory, key findings, and controversies are considered.

**Fundamentals**

AST was originally applied in the study of group decision support systems, but it has also been used to study enterprise level systems, geographic information systems, electronic billing systems, context aware applications, and mobile systems. It has also been applied to non-ICT topics including leadership, virtual teams, the evolution of standards, and implementation of innovations.

AST posits that social systems, such as groups and organizations, can best be understood in terms of how their members actively structure practices such as decision making. This process of structuring is referred to as *structuration*, defined as the production and reproduction of a social system through members’ appropriation of generative rules and resources. Underlying this definition is a distinction between system and structure. A *system* is an observable pattern of relationships among actors, such as a group or organization. *Structures* are the rules and resources that members of the system employ in their activities and interactions that give the system its pattern. Structures are not directly observable, and in fact, the term *structure* is itself a useful reification that is employed for analytical purposes. Structures are dualities in that they are both the medium of activity and its outcome. As members draw rules and resources from tasks, norms, ICTs, and other sources into the activities and interactions that constitute the social system, they are enacting and sustaining these structures and simultaneously making them part of the ongoing organization of the system, that is, reproducing them.

AST argues that the effects of an ICT on group and organizational processes and outcomes depend on the structures embodied in the technology (structural potential) and on the emergent (adaptive) structures that form as members interact with a technology over time. AST distinguishes two elements of ICT structures: spirit and features. *Structural features* are specific types of rules and resources, or capabilities, offered by the system that are embodied in the material ICT artifact—and *spirit* is the general intent with regard to values and goals underlying a given set of structural features. The spirit of an ICT is the principle of coherence that holds its ensemble of structural features together. As understood by members, the spirit of an ICT provides normative guidelines for applying the ICT, an interpretive scheme for making sense of the ICT and its outcomes, a guide for “filling in” aspects of the ICT that are not explicit, and a degree of control over how the ICT is utilized. An online project management system, for example, may be designed to promote the values of collaboration and efficient use of resources; this spirit, reflected in the overall design of the system, in training, and online help, shapes how users interpret and employ the system. Structural features are rules and resources embodied in the ICT as users encounter and work with it. For example, in the project management system, a budget-tracker tool would incorporate rules for accounting and resource allocation, while a discussion tool might have a space for idea sharing that incorporates collaboration procedures, such as brainstorming. Ideally, spirit and structural features are in alignment, but due to limitations in technology, implementation errors, and unintentional slippage, there are often inconsistencies between features and spirit. The budget-tracker tool, for instance, might display comparisons of project budgets that are meant to be informative but inadvertently create conflicts between members, reducing collaboration.

Structures—spirit and features—are produced and reproduced through structurational processes that occur as members of group and organizational systems appropriate them in ongoing activities. * Appropriation* refers to the process by which members of a social system incorporate structural features into their ongoing activities, literally “making the structure their own.” Appropriation involves selection, combination, emphasis, and de-emphasis of elements of the structural potential available to a system. For example, a project team may use some features of the budget tracker and ignore others, leaving the rules and resources in the latter effectively “inert.” Each appropriation creates “structures-in-use” that guide system activity and interaction and are unique to the group and organization. A team might appropriate the discussion tool by merging the rules it embodies with some of the rules members use in “offline” discussions. The result is a novel structural ensemble that is tailored to the specific situation in which it is employed.
Structuring processes also draw on external structures from assigned tasks, organizational rules and culture, professions, and other social institutions. Further, they give rise to emergent structures that include outputs of the ICT (e.g., budget reports, lists of ideas) and novel rules and resources that the group or organization creates in the course of its interaction. For instance, a project team might develop a spreadsheet tailored to the strategic goals of the organization to supplement the budget tracker. This spreadsheet carries emergent structures, and if it adds sufficient value that other teams adopt it, then it becomes part of the existing structural potential of the organizational system, to be drawn upon and adapted in the future.

The members’ reading of the spirit of an ICT influences its mode of appropriation. For example, if team members come to agree that efficient use of resources is a more important value than collaboration for the project management system, then their use of the system, the external structures they bring to bear, and the structures-in-use they generate and retain will differ from those that would have resulted had they chosen to emphasize collaboration.

A number of appropriation moves that represent the particular operations involved in using ICTs in microlevel interaction have been identified. These include bids to use or interpret the ICT in certain ways, to combine it with other structures, and responses to these bids. There are also “metastructuring” actions that direct or channel appropriation moves. Sequences of appropriation moves can be analyzed to identify overall global appropriation of the ICT. A key feature of appropriation is the degree to which it maintains consistency between spirit and features. A faithful appropriation occurs when use of structural features is consistent and in harmony with the spirit of the ICT; an ironic appropriation occurs when structures are used in ways contradictory to spirit. Some ironic appropriations are deleterious, but others may represent novel and improved ways of using the ICT. Another aspect of appropriation is instrumental use: ICTs may be employed for purposes related to task, process, power, sociality, and exploration, among others.

Several general constructs characterize overall appropriation of an ICT. Degree of use can be assessed in terms of number and frequency of feature use. Degree of understanding refers to how well members grasp the operation of the ICT and its features, as well as its spirit. Degree of consensus on appropriation among users influences the ease with which the ICT is used, consistency of use, and its effectiveness in promoting desirable outcomes; conflicts over the ICT are likely to detract from effectiveness and, if not managed constructively, could lead to power struggles. Finally, appropriations can be characterized in terms of attitudes toward a technology, members’ comfort with the ICT, respect for it as useful, and the challenge to work hard and excel that the ICT poses.

Several sets of factors influence the structuring process. Most obvious, characteristics of the ICT, including its restrictiveness (degree of freedom the user has in applying the ICT), its level of sophistication (degree of intelligence built into the ICT), its standardization (degree to which the ICT is well understood and accepted in the community of which the organization or group is a part), and its complexity. A second set of factors external to the system include task characteristics, such as difficulty and complexity, and characteristics of the system’s environment, such as dynamism and hostility. Other external factors such as general technological trends, interorganizational and intergroup dynamics, and social institutions also shape structuration. Third are aspects of the internal system of the organization or group, including group and organizational culture, norms, and leadership.

These three sets of factors are sources of structure, and, just as in the case of ICT structural potential, only a portion of the total constellation of structural elements comes into play. Hence, these factors do not determine group and organizational processes in the traditional causal sense. The system is directly influenced only by those structural elements its members consciously or unknowingly incorporate into the mix of structuring activities.

Outcomes such as effectiveness, efficiency, commitment, learning, and cohesion are the ultimate result of the structurational process. New structures may also result, which influence subsequent interaction. For example, following use of the budget tracker, a team might decide to add a rule that it should analyze multiple-budget scenarios before making significant budgetary decisions, changing prior procedures. These novel structures are then available for the group and organization to use in the future.
Importance

The extensive body of research using AST has yielded a number of generalizations which bear on the validity and utility of the framework as a whole, including the following:

1. Consistent with the theory, differences in the use of the same ICT by different groups and organizations have been observed in multiple studies. The manner in which the ICT is appropriated by groups and organizations has been shown to relate to outcomes including decision quality, member satisfaction, and willingness to use ICT in the future.

2. The relationship between ICT and outcomes is based on a double contingency. To the extent that the ICT is appropriate for the task at hand and to the extent it is consensually appropriated by members in a manner appropriate for the task, the group or organization will achieve better outcomes.

3. Users tend to have more trouble with and resist using more sophisticated technologies, but if they appropriate them in a manner consistent with the spirit of the ICT and with the demands of task and context, positive outcomes ensue.

AST has been criticized by some for being overly “positivistic” and hence inconsistent with the interpretive-critical approach Giddens takes. This criticism may be traced to the fact that the theory was developed to bridge quantitative and interpretive approaches in inquiry and emphasizes a priori construct definition and attention to validity of measurement, as well as the earliest exemplars of AST research. However, in addition to quantitative approaches, such as laboratory experiments and structural equation modeling, a number of interpretive studies and even a few critical analyses have been conducted utilizing AST. Several issues are currently under debate. One is the nature of agency and whether ICTs can be agents of some type. A second is how microlevel structurational moves cumulate to yield a more general appropriation of ICTs.

From a practical perspective, AST has generated descriptions and explanations of the processes by which particular structuring processes unfold and strategies for managing ICT implementation. For example, AST studies have found that in supporting users, general heuristics that help users make sense of the ICT as a whole are more effective than training in specifics (provided technical support is adequate). A key skill for ICT managers is learning to “read” the processes of adaptive structuration so that they can channel it in productive directions.

Marshall Scott Poole

Further Readings


AFFECT THEORY

This entry describes a general theory about conditions under which the positive affect that people experience when doing tasks with others promotes stronger affective ties to a company or organization. The theory offers guidelines for how to structure tasks, how to frame or define them for employees, and how to make work groups and
teams effective at generating a spirit of citizenship and collective orientation in support of the company. The principles of the theory apply to any task that requires people to exchange ideas or information. The theory is inspired by observations that working with others on a task tends to produce positive or negative individual, often private, feelings. If team members work well together, members feel pleased, uplifted, and energized, but if they have trouble coordinating or producing results, members come away feeling down, displeased, or sad. The main idea is that such everyday good or bad feelings shape the affective ties that people develop to their local work groups as well as to the larger organization. Repetition of these feelings is crucial. When people repeatedly experience positive feelings from working jointly with others, they may attribute their feelings to shared relational or group affiliations (e.g., their department or the company). More specifically, the affect theory reveals that people attribute their feelings to groups or organizations especially when they engage in joint tasks that foster a sense of shared responsibility. Individual feelings are essentially transformed into affective group ties. The key result is that individuals are more willing to act on behalf of and make sacrifices for the group or organization. The following entry reviews the main ideas and implications of affect theory.

**Fundamentals**

There are many theories about affect, or emotion, in psychology and sociology. Most focus on negative emotions (such as fear, anger, and sadness) rather than positive emotions (such as pleasure or excitement). Positive emotions are known to make people view the world more inclusively or broadly, see more options than otherwise, and cooperate more productively with others. Negative emotions tend to narrow people’s thinking whereas positive emotions tend to broaden it. Research on groups or teams accords little attention to import of emotions or feelings produced in the course of task interactions. The affect theory of social exchange explains why even mild everyday feelings of pleasure or excitement from task behaviors can have important effects on the ties of commitment people develop to groups or organizations. The emphasis is on group level, affective ties rather than interpersonal ties with colleagues.

The affect theory interweaves three broadly applicable ideas:

1. When people accomplish a joint task, they feel good; when they have a joint task but do not accomplish it, they feel “bad.” Such emotions inevitably occur when people work with others.

2. If such experiences recur across time, people are likely to interpret their individual feelings as due in part to common group or organizational affiliations.

3. People thus attribute their individually felt emotions to the relevant social unit, which can be a small local group or the larger organization; this in turn leads to affective attachments to the group or organization. The domain of the affect theory is any group or organizational context in which two or more people interact with each other repeatedly in order to exchange things of value (information, knowledge, favors, services) and produce a collective result.

Smaller groups are typically nested in larger groups, and it is plausible that people will associate their feelings more with local, immediate groups than with larger and more distant ones. This is a potential problem for employers. If a work team generates positive affect among its members, they could associate their feelings with the team itself or the larger organization within which the team operates. The affect theory indicates that people attribute their feelings to the local or larger group to the degree that each is perceived as a source of control or efficacy for individuals in the group. If the task structure or content is developed and controlled locally, then the commitment to the local group may be stronger than to the larger organization, whereas if the task is designed and controlled by the larger organization, the attachment or commitment may be stronger to that organization than to the local group. The affect theory suggests some conditions under which organizations foster strong attachments to local units that undermine commitments to the larger organization. This commitment problem is especially difficult for decentralized organizations.

**Social-Unit Attributions of Emotion**

Social-unit attributions are the process by which individual emotions are transformed into affective
ties or commitments to a group. The idea that people can make social group or relational attributions of emotions is new and potentially controversial, because there is a long tradition of research in psychology revealing that people make self-interested attributions for success and failure. In other words, they give themselves credit for task success and blame others or the situation for task failure. The affect theory claims that social-unit attributions of emotions mitigate or counteract such individually centered attributions.

To elaborate, the theory adopts a sharp distinction between global emotions that are immediate (pleasure, enthusiasm) and specific emotions (pride, gratitude) that stem from an interpretation of those global emotions. Global emotions are involuntarily felt as a result of an episode of social interaction. Specific emotions require more thinking or cognitive work (conscious or nonconscious) which interprets the responsibility of self, others, and social units for the global feelings. Different targets (self, others, group) entail different specific emotions. If the positive emotions are attributed to self, the specific emotion of pride is likely (or shame if the emotions are negative); if global feelings are attributed to others, the specific emotions are gratitude (given positive feelings) or anger (given negative feelings); if attributed to the social unit, the specific emotions are group attachment or detachment. The key question for the theory then is, Under what structural or task conditions do people make social-unit attributions for the emotions they feel as an individual?

**Joint Tasks and the Sense of Shared Responsibility**

The affect theory of social exchange indicates that the most general condition for social-unit attributions is the jointness of the task. A joint task is one in which there is a collective product that members create together through their social interaction. The task cannot be done alone or completed by simply aggregating the performances or contributions of individuals. The degree of task jointness is important because it shapes whether people have a sense of shared collective responsibility for the results. Examples of joint tasks include business partnerships, homeowners associations, and even child rearing.

The jointness of tasks varies not only objectively but also subjectively. An organization or team leader may define the task of a work team in joint or in individual terms and, in the process, highlight individual or collective responsibility for results. Both the objective task conditions and the subjective definitions put forth to frame the nature of the task are important. The affect theory identifies one main structural (objective) and one main cognitive (subjective) condition for social-unit attributions of individual emotions.

The structural condition is the degree that each individual’s contributions to task success (or failure) are separable (distinguishable) or nonseparable (indistinguishable). In some tasks, people cannot distinguish who did what or how much each contributed to the collective product. Tasks that make individual contributions nonseparable or indistinguishable have higher jointness. Such tasks reduce the capacity of individuals to attribute group success to their own individual efforts or to exaggerate their contributions. Overall, tasks that involve adding up or averaging of individual performances or contributions enhance the sense of individual responsibility, whereas tasks that intertwine individual performances should heighten the sense of shared or collective responsibility. Discrete, highly specialized, independent roles in an organization tend to draw attention to individual responsibility, whereas overlapping, collaborative roles highlight shared responsibility.

The cognitive dimension of jointness is the degree that the task promotes the sense of shared responsibility for group success. The argument is that if task interaction in a group or team generates a sense of shared responsibility, people are more likely to interpret their individual feelings as jointly produced in concert with others and, therefore, more likely to attribute their feelings to shared group affiliations. Thus, if employees perceive a shared responsibility for group performance, a work group should generate greater emotion-based cohesion and stronger group-affective attachments. Affective processes can explain the impact of individually versus collectively oriented methods of accountability on group and organizational commitments.

**Four Core Propositions**

The affect theory is captured by four central predictions:

1. The more indistinguishable the impact of individuals’ behavior on task success (or failure), the greater their sense of shared responsibility for results.
2. With greater shared responsibility, people are more likely to attribute their feelings from task activity to the group, that is, to make social-unit attributions.

3. Social-unit attributions of positive emotion generate stronger affective ties to the group resulting in the group becoming valuable as an intrinsic object rather than a purely instrumental one; negative emotions weaken those person-to-group ties.

4. Stronger affective group ties lead members to work harder on behalf of group goals as well as to trust and collaborate with each other. Additionally, the theory predicts that (a) joint tasks and shared responsibility generate the spread of emotions across members in the group (emotional contagion), and (b) commitments to local, immediate groups tend to be stronger in the absence of interventions by the larger organization to claim credit for the positive feelings and experiences of people at the local level.

**Importance**

Experiments have supported the main ideas of the affect theory. As predicted, repeatedly exchanging valued items with another produces positive individual feelings, and these, in turn, generate perceptions of a cohesive group and various forms of behavioral commitment (staying, cooperation, and altruism); these effects are particularly strong and pervasive if the people are (a) highly dependent on one another, (b) equally rather than unequally dependent, and (c) engaged in a joint task. The research demonstrates that tasks with higher degrees of jointness produce a greater sense of shared responsibility and stronger affective attachments to a group. As expected, social-unit attributions transform individually based feelings into collectively oriented feelings. Moreover, results of research testing the affect theory dovetail with other research in organizational behavior, for example, evidence that positive affect fosters more cooperation and more inclusive mind-sets for processing information. A unique aspect of the affect theory is its attention to emotional pathways by which interdependent task structures generate group and organizational commitments.

The theory has implications for the design of jobs, the structuring of team tasks, and systems of accountability. Highly specialized, precisely defined jobs may create clear expectations and good metrics for performance, but they also may reduce the overall sense of shared responsibility among a set of employees engaging in complementary tasks thereby weakening their affective commitment to the group or organization. Also, the cognitive framing of tasks by leaders can have an impact on whether positive task experiences strengthen or weaken ties to teams or the larger organization and thus how much individuals are prepared to sacrifice for the local group unit or larger organization. Finally, accountability systems that target collective results are likely to promote stronger and more affective ties to the employer organization than those that target only individual accountability.

*Edward J. Lawler*

**Further Readings**


**Affective Events Theory**

Affective events theory (AET) is primarily a framework for studying the nature, causes, and consequences of affective experiences at work. It has
been an important influence on the way moods and emotions have been studied in work settings. AET is also a framework for an alternative paradigm for organizational research, one that focuses on within-person variability, the effects of work events on people’s work lives, and on the subjective, first-person experience of workers. AET was first described by Howard Weiss and Russell Cropanzano in 1996. This entry presents a brief discussion of its central arguments and applications.

**Fundamentals**

As an organizing framework for the study of moods and emotions at work, affective events theory is organized around a number of critical distinctions and assumptions. Chief among them are the differences between true affective states, such as moods and emotions, and attitudinal constructs, such as job satisfaction and commitment; the importance of events as proximal causes of affective states and other work outcomes; the delineation of outcomes driven by affect and those driven by attitudes; the episodic structure of work experiences; and the recognition that developing models of within-person variability in affect and performance is as important as developing models of between-person variability.

AET begins by drawing a distinction between job satisfaction and true affective states like moods and emotions. Although this distinction is now well recognized, at the time that AET was introduced, definitions of satisfaction as emotion predominated, causing conceptual confusion among the constructs. In contrast, AET defines satisfaction as an evaluative judgment made about one’s job, different from but influenced by the variable emotional experiences one has on one’s job. As described in the original paper and elaborated on by Weiss in later writings, emotions and moods are variable states with relatively definable beginning and endings and carry distinct phenomenal feelings. Satisfaction and other work attitudes are evaluative judgments that, while changeable, are neither “experiential” nor statelike.

A number of key aspects of AET turn on this distinction. For example, consistent with the nature of emotions as states and the basic research on emotional instigation, AET emphasizes the causal influence of events on employees’ experiences. Things happen to people, at work and off work, and these events are the proximal causes of affective states. AET contrasts the focus on events as causal influences with the more traditional focus on work features (pay structures, supervisory styles, etc.) as causal influences. It further suggests that many structural relationships between features of the work environment and affect reports are mediated by the proximal influence of work events. As a result, AET has stimulated research on the nature and consequences of work events.

Following from this, AET makes a distinction between affect-driven behaviors and judgment-driven behaviors, a distinction that helps resolve traditional difficulties in understanding affect- and satisfaction-performance relationships. As described in the AET framework, many aspects of work performance are variable and influenced by being in a certain affective state at a particular moment in time (affect-driven behaviors). Other behaviors are more directly influenced by more enduring attitudes about the job or organization (judgment-driven behaviors). Treating satisfaction as an emotion confuses these two causal processes, leading to the false assumption that satisfaction is a proximal cause of behaviors more likely influenced by momentary affective states and contributing to the ambiguity surrounding affect-performance relationships. In drawing this distinction, AET encourages clarification of proximal causal processes associated with different work outcomes.

Borrowing ideas from Nico Frijda, AET developers and/or practitioners describe emotional experiences at work as having an episodic structure, with an emotion episode being a subjectively coherent state extended over time, organized around a coherent theme but potentially including various discrete emotions. The AET framework suggests the importance of studying episodic structures of life experiences generally, and follow-up work has focused on the performance implications of parallel streams-of-emotion episodes and performance episodes.

In sum, AET offers a framework for understanding the within-person causes and consequences of subjective emotional experiences in organizational settings. It describes the nature of affective experiences at work, the episodic structure of such experiences, the influence of affective states on work performance and job attitudes, and the appropriate way to study these processes.

While AET has been an influential framework for studying worker emotions since its presentation,
it has also influenced research outside the fields of management and organizational behavior, having been applied to problems of consumer psychology, K–12 classroom effectiveness, and work-family processes. Finally, although AET is best known as a framework for studying emotional experiences, its influence on management research extends beyond this topic. AET’s focus on within-person, episodic processes has stimulated more research on the variable nature of work experiences and on the causal importance of work events, and its articulation of the distinctions between attitudes and affective states has helped increase attention to subjective experiences at work more generally.

Howard M. Weiss

See also Affect Theory; Emotional and Social Intelligence; Theory of Emotions

Further Readings


**Agency Theory**

Rooted in the field of financial economics and influenced by law, agency theory is used to apply a contractual framework to a vast array of situations in which one party, referred to as the principal, utilizes the services of another party, referred to as the agent. The contractual obligations of the agent to the principal can be negatively affected by the agent’s self-interest and result in “agency costs” borne by the principal. However, the principal should anticipate that agency costs might emerge, and he or she can proactively set up controls to keep the costs in check. Agency theory’s impact on management theory has been tremendous. Most notably, it is the dominant theory of corporate governance, and indeed agency theory has helped to spur the study of corporate governance. This entry is an exploration of the application of agency theory within the field of management, including some extensions of the theory. It explores why agency theory is so influential, yet at the same time can be so contentious.

**Fundamentals**

Agency theory provides a parsimonious framework for analyzing transactions or relationships between two parties, the principal and the agent, in which the principal engages the agent to provide a good or service. The theory shows such transactions and relationships as implicit contracts. There are two forces affecting the dyadic contract between the principal and agent: the agent’s contractual obligation to the principal and the agent’s self-interest, which is assumed to differ from the contractual obligation. This gap is what is assumed to differ from the contractual obligation. The agent is often hired based on expertise or knowledge and is trusted to use this expertise on behalf of the principal. But this gap in expertise indicates that information asymmetries exist between the parties and the agent might have an informational advantage over the principal. Sources of information asymmetry consist of adverse selection, or incomplete precontract information (e.g., the agent appears to be), and moral hazard, or postcontract hidden action or hidden information (e.g., the agent takes on too many contracts and fails to service a particular principal well).

As the agent is motivated by self-interest and might engage in adverse selection or moral hazard, “agency costs” can emerge in contract execution and will reduce the outcome to the principal. The term *opportunism* is used to describe the category of self-interest that is characterized by guile. However, a principal can minimize agency costs by assuming that they will tend to occur and employ controls...
Agency Theory

over the agent in order to preempt their occurrence. The two key means for the principal to control the agent are (a) monitoring the agent and (b) creating incentives that align the agent’s self-interest with that of the principal, known as bonding. It is thought that when an agent has highly specialized knowledge, monitoring the agent becomes difficult and incentive alignment becomes particularly critical. Monitoring and bonding are not costless and result in additional sources of agency costs that are borne by the principal. However, agency theory espouses that contracts can be structured so that the cost of these preemptive controls is low and will result in greatly reduced resident agency costs due to information asymmetries. In other words, agency theory assumes that managers might run the firm to suit their own interests rather than the interests of their shareholders. However, shareholders can prevail by monitoring and rewarding the managers so that managerial self-interest is then aligned with that of shareholders, and the overarching goal of maximization of shareholder value is achieved.

Per the research paradigms of organization theory put forth by Gibson Burrell and Gareth Morgan, agency theory is clearly in the functionalist paradigm; it regards maintenance of the status quo or the sociology of regulation rather than radical change, and its perspective is one of purported objectivity rather than subjectivity. Along with industrial organization economics and transaction cost theory, agency theory demonstrates the formidable influence of the fields of economics and financial economics on management theory. The theory has been particularly impactful in strategic management, indicating that the foundational influence of economics on the development of this subfield of management has continued in new manifestations. Within the related field of public administration, a variation of agency theory is referred to as public choice theory, which has to do with the accountability of elected officials to their constituents and issues tied to the relative unaccountability of government administrators and bureaucrats, who are shielded by their civil service protection.

Evolution

Corporate governance is an interdisciplinary field, encompassing financial economics, management, accounting, and law. Its definitions range from the rights, responsibilities, and relationships among stakeholders in establishing the direction and performance of the firm, a stakeholder-based definition, to the narrow definition tied to financial economics, which concerns the alignment of control mechanisms to maximize shareholder value. Agency theory rests on the latter definition.

In a powerful seminal work in 1976, the financial economists Michael C. Jensen and William H. Meckling touted agency theory as a theory of the firm, with the firm viewed as a “nexus of contracts.” Shareholder wealth maximization is a central assumption of agency theory in this application, as it is an assumption of financial economics. Yet agency theory puts forth the idea that if left to their own devices, managers will tend to overdiversify and overdevelop their firms at the expense of shareholder value maximization. Jensen and Meckling characterized the publicly held or public corporation by its problematic separation of ownership and control, which had been noted several decades earlier by Adolf A. Berle and Gardiner C. Means. In the public company characterized by inactive, diffused ownership, owners or shareholders no longer controlled the firm or its management; instead, corporate managers filled the void by both managing and controlling the firm, a style known as managerialism. While Berle and Means had earlier recognized the issue of the separation of ownership and control, Jensen and Meckling presented a solution to the dilemma; they identified several means by which owners or principals can reduce agency costs and reestablish control over the managers or agents of firms, to reap the rightful benefit of shareholder value maximization.

Eugene F. Fama and Michael C. Jensen then joined the concept of residual claimant status with a nexus of contracts perspective. Agency theorists positioned owners as residual claimants who bear the firm’s risk of bankruptcy and are therefore entitled to the firm’s profit after all others—namely, its fixed claimants including employees and bondholders—are paid. This agency representation of owners as residual risk bearers and residual claimants further served to advance the primacy of owners and managers’ obligations to them through shareholder value maximization.

Yet it must be noted that despite its earlier influence, indeed domination, in financial economics, it was Kathleen M. Eisenhardt’s review of agency theory that led to its burgeoning use in management. Eisenhardt differentiated between positive agency theory, focused on governance mechanisms
that limit manager-agents’ self-serving behavior as exemplified by the contributions of Jensen and colleagues, and the more abstract principal-agent research, focused on the use of logical deduction and mathematical proofs. Eisenhardt took a theory that had little to do with management theory or practice—indeed could be viewed as antimanagement in its assumption that managers have a different attitude toward risk than their shareholders and will tend to make strategic decisions to favor their own attitude, and presented positive agency theory in a manner that illustrated its usefulness in analyzing relationships and testing hypotheses. For example, while agency theory acknowledges the potential for goal conflict, it assumes that conflict resolution lies in the alignment of economic incentives, rather than in the political means of bargaining, negotiation, and coalition building. It is surely much easier for management scholars to test and measure the impact of managerial economic incentives on shareholder value than it is to test and measure the effects of bargaining, negotiation, and coalition building. Agency theory offered management scholars the benefit of parsimonious explanation and strong predictive ability relative to other theories, while ignoring the potential effects of a more realistic range of human motivations and conditions, including the institutional context of the contract as noted by Eisenhardt.

Within the United States and in many other contexts, corporate governance control mechanisms consist of several internal or firm-level forces and several external or contextual forces. The internal control mechanisms are shareholder power, boards of directors, and executive compensation. Agency theory has a prescription for the effective utilization of each internal control mechanism. First, agency theorists’ call for shareholder action in aligning managerial and owner interests, which is achieved by the reconcentration of active ownership. Second, according to agency theory, boards of directors exist largely to monitor management and ensure that managers are focused on the overarching corporate goal of maximizing shareholder value; those managers who fail to do so should be replaced by their boards. Third, agency theory has abjectly promoted the use of executive stock options as a mechanism for aligning shareholder and executive interests, with executives rewarded with shares if the firm’s stock reaches the option strike price.

There is also the external corporate-control mechanism of corporate takeover, referred to as the market for corporate control, in which underperforming firms whose market value has declined with their performance are acquired by well-performing firms. Whereas there are other external corporate-control mechanisms, or gatekeepers, including industry regulation, credit rating agencies, and auditors, agency theory relies more on internal-control mechanisms, most notably executive compensation, and on the external mechanism of the market for corporate control, assuming that these are more efficacious than the other mechanisms. They are the mechanisms that are most clearly related to economic rather than political means of control.

**Importance**

Agency theory is surely influential, provocative, and controversial. It attracts some management researchers and provides them with a framework for studying a range of organizational phenomena; it repels others, who critique it; and it challenges a third group, who both revere many of its aspects but revile its shortcomings. Agency theory has also “put a dent in the universe” by affecting business practice through its prescriptions regarding corporate governance mechanisms. This section will first review the application of agency theory within the academic field of management and will then review the effects on business practice that are associated with the influence of agency theoretic thinking.

**Impact on Management Theory**

Virtually any relationship or transaction can be studied by employing the concept of the principal-agent contract and evaluating the efficacy of mechanisms in controlling the agent and thereby reducing agency costs. Management scholars have applied the theory to a broad range of interorganizational phenomena, including public-private partnerships, supply chain management, and franchising. It has also been employed in intraorganizational phenomena, for example, decision making, employee performance, and corporate entrepreneurship. Yet agency theory’s largest area of application within management is corporate governance, which tends to be interdisciplinary and draws from management, finance, law, accounting, and other disciplines. Agency theory has been employed in the study of
institutional investment and investor activism and in various aspects of the composition and processes of boards of directors, mergers and acquisitions (referred to as the “market for corporate control”), and executive compensation, generally within the context of effects on organizational performance.

Yet agency theory is also among the most criticized theories within management. Perhaps the most frequent criticism is triggered by its assumption that people are atomistic beings who are primarily motivated by self-interest, rather than socialized beings primarily motivated by norms, professionalism, and/or moral obligation. Despite scholars’ claims of its objectivity, agency theory has been viewed as being normative; accordingly, it both advances shareholder primacy as the overarching corporate goal and legitimates self-interest as a motivator. Perhaps the most severe critique of agency theory regards its lack of ethical responsibility in possibly unintentionally promoting corporate corruption and disregard for the societal implications of business practice. The labeling of self-interest as the primary human motivator might unintentionally encourage self-interest, creating a self-fulfilling prophecy.

Some find that the attempt to explain complex, social phenomena through a contractual approach is simply inappropriate and leads to deceptively simplistic solutions. Agency theory is thought to ignore the interdependence and trust that characterizes organizational relationships and teams; and its top-down focus might encourage Taylorism. It diminishes the role of management to that of merely monitoring and rewarding others; and the theory’s overemphasis on financial incentives is misguided, as financial incentives can “crowd out” the effects of nonfinancial (and often cheaper and more effective) incentives. Agency theory overstates the case of performance issues due to self-interest while ignoring the difficulties of making managerial decisions within a context of uncertainty, ambiguity, and goal contestation. Certainly, not all suboptimal organizational performance is due to the agency costs of managerial mischief; yet agency theory does not allow for consideration of other sources of suboptimal performance.

There have been attempts to overcome some of the criticisms by melding agency theory with other management theories; these most notably include the behavioral-agency theory of Robert M. Wiseman and Luis R. Gomez-Mejia, which intertwines some elements of behavioral decision theory; and stakeholder-agency theory, advanced by Charles W. L. Hill and Thomas M. Jones. Luh Luh Lan and Loizos Heracleous boldly apply agency theory from an enlightened stakeholder perspective; in their model, the corporation itself is the principal, and the role of the board expands from monitors to “mediating hierarchs.” There have been attempts to reflect greater complexity in the agency contract by conceptualizing multiparty rather than dyadic contracts and to focus on the role of the contract’s institutional context in affecting agency costs. The construct of “principal-principal costs” has emerged; it proposes that there is heterogeneity among investors and their interests and indicates that powerful shareholders of a firm (including founding families, those with voting stock, and block holders) can advance their specific interests at the expense of other shareholders. Accordingly, managers can become the pawns of powerful, controlling shareholders.

The abuse of small investors by powerful, controlling investors is a reality in many countries and contexts, and it is interesting that agency theory has been employed to advance this important issue of investor abuse. Perhaps new applications of the theory and new constructs developed from its framework will continue to develop and help to overcome some of the criticism. It cannot be denied that this overly simplistic framework does cause us to focus on the most basic aspects of transacting, which can well be lost in more inclusive theories, and it has generated a groundswell of reaction and new theorizing that might not have otherwise occurred.

Impact on Business Practice

The timing of agency theory’s rise to prominence in the 1980s led to its impact on changing actual business practice. Corporate performance was suffering due to the massive overexpansion and diversification of the 1950s to 1960s and was also reeling from the energy crisis, inflation, and global competition. Agency theory presented a series of prescriptions for refocusing corporations by exerting greater control over management.

But many of the prescriptions have either exacerbated the problems or created new problems. First, overreliance on stock options as a means to align managers with shareholders has often backfired,
leading to malfeasance including accounting fraud and the backdating of options contracts. It is preferable to use long-term stock grants rather than stock options in executive compensation, so executives bear the downside as well as the upside risk of strategic decisions, as do shareholders. Second, a series of studies indicates that the increased level of monitoring of executives and their more frequent replacement by boards has resulted in even greater compensation levels, due to the resulting heightened executive employment risk. Third, the market for corporate control rarely works as theorized. Often, small, high-performing firms are taken over by large, mediocre firms; the cyclical nature of the activity encourages overpayment for the target, and integration costs negatively affect the deal’s rate of return.

Fourth, the movement toward more independent board members hasn’t helped, other than in a symbolic way, as the board nomination process remains troubled. Fifth, agency theory promotes the practice of firms completely altering their governance structure by “going private,” a process in which firms depart from public stock markets and are then owned by a handful of private equity firms. This trend is troublesome regarding, first, its potentially negative impact on corporate social performance, given newly private firms’ abject emphasis on shareholders and shareholder value; and second, its negative effects on employees, bondholders, and other stakeholders, as newly private firms tend to be highly leveraged and are at undue risk of bankruptcy. Sixth, the watchdog mechanism of industry regulation needs revival, as deregulation of banking and other industries—associated with the free-market mantra manifested in agency theory—contributed to the great recession. Perhaps the group of management scholars who both revere and revile agency theory will continue to develop more thoughtful, holistic, and sustainable models, and might “crowd out” the scholars who have utilized the theory without being mindful of its implications for business practice.

Marguerite Schneider

See also Behavioral Theory of the Firm; Management Roles; Managerialism; Prospect Theory; Stakeholder Theory; Stewardship Theory; Upper-Echelons Theory

Further Readings

Analytic Hierarchy Process Model

The analytic hierarchy process (AHP) is a method for prioritizing among alternatives to facilitate decision making. Developed by Thomas L. Saaty in the 1970s, the AHP provides the decision maker a means to decompose a complex problem into a hierarchy of levels that then allows the decision maker to rank various elements within any particular level using a pairwise comparison scheme. AHP is a relevant topic within this encyclopedia because it has wide appeal and has been used extensively in a variety of managerial decision-making contexts. This entry provides an overview of the generic AHP process, describes some of the supporting notions, explains some of the criticisms, and discusses some of the managerial applications.
Fundamentals

The analytic hierarchy process (AHP) comprises a hierarchy of levels (e.g., goals, criteria, and alternatives). At each level, manager(s) examine each entity on a level across all combination of pairs for the subordinate level. For example, if the goal was to select a car to purchase, one of the criteria for selecting that car might be fuel economy. To determine a priority of cars for a given criterion, each car would be compared to all other alternative cars in terms of that particular criterion. In this case, a hybrid sedan (40 mpg) would be considered more preferable than a midsize sport utility vehicle (25 mpg). This would be repeated for all criteria (e.g., storage space, price, maintenance cost, styling, etc.). Then, each criterion would be evaluated against all other criteria. Once all comparisons have been made (and the rating and ranking have been completed), the range of decisions (choice of cars) will have been prioritized according to the criteria.

The following is the general process by which the AHP is applied in a decision-making context. AHP uses the following basic format to elicit key information about the decision problem:

- Describe the problem to be considered.
- Develop a hierarchy for the problem under consideration. A basic AHP hierarchy might include objectives at the top level, criteria at the next level, and alternatives at the lowest level. There can be more or fewer levels.
- Given this hierarchy, a set of pairwise comparisons are developed (such that for each level of the hierarchy, there are \( n(n-1)/2 \) judgments to be made using a relative scale).
  
  For example, if there are two items being compared, A and B, the decision maker would be asked which element is preferred, more important, etc. Then, the decision maker would indicate the strength of that relationship: equal, moderate, strong, very strong, or extreme (and the following absolute numbers are assigned: 1, 3, 5, 7, or 9, respectively). For example, if A is considered moderately more important than B, it would be assigned the value 3 to indicate that it is three times more important than B. Conversely, B is one third as important as A (the reciprocal). Pairwise comparisons are made for each level of the hierarchy.

Once pairwise-comparison judgments have been made, a solution technique is used to identify the principle eigenvalues for each item in a particular level of the hierarchy. These eigenvalues correspond to the relative weight assigned to each item. The relative weights can be combined across the various levels (e.g., decision criteria) to determine the most preferred alternative (according to the decision-maker's judgments from the pairwise comparisons).

AHP also allows for consideration of what is called a consistency index, which examines the coherence of judgments as indicated by the frequency of intransivities. Such an inconsistency would be evident by the following set of judgments: A is preferred to B, B is preferred to C, C is preferred to A. This consistency index can be used in several ways: It can be used to evaluate the coherence of a particular set of judgments, or it may provide feedback to the decision maker to reevaluate his or her inconsistent judgments.

There are several supporting notions that make this theory possible: A hierarchy may be constructed to represent the decision problem; there are a finite number of items people can effectively consider at one time; at a sufficient level of difference, people can distinguish differences in stimuli between two items; the judged relationships between items can be expressed as ratio scales. Thus, a nearest integer approximation of the ratio between compared values will be revealed by a derived scale, clustering and pivoting can extend the arbitrary scale, the weights are insensitive to small perturbations of judgments under certain conditions, the tangibility of the criteria will dictate the solution method (top-down or bottom-up), and the synthesis is additive in nature.

One of the strongest criticisms of the AHP was that it suffers rank reversal when alternatives are introduced or removed. This has been addressed in several ways including to note that the decision criteria depend upon the alternatives, and accordingly, when alternatives are added or removed, the criteria and also the judgments will necessarily change, and thus, there may be reversals due to this dependence. Other criticisms include concerns when the hierarchy is incomplete and when there is inconsistency in the judgments about paired comparisons and about the particular solution method for finding the relative weights.
Despite these criticisms, due to its simplicity and ability to simplify complex decision problems, AHP has been applied widely in many domains (including private, public, and nonprofit sectors) and across many business functions (e.g., logistics, manufacturing, marketing, strategy). Furthermore, AHP has been integrated with other methods, such as mathematical optimization, quality function deployment, SWOT (strengths, weaknesses, opportunities, and threats) analysis, and data envelopment analysis.

AHP has been used in a wide variety of applications and managerial settings in public, private, and not-for-profit sectors. It has been used in many industry sectors including agriculture, construction, manufacturing, transportation, financial services, retail trade, services, and education.

Paul Szwed

See also Decision Support Systems; Decision-Making Styles; Garbage Can Model of Decision Making; Intuitive Decision Making; Participative Model of Decision Making; “Unstructured” Decision Making

Further Readings


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**Analytical and Sociological Paradigms**

In the 1970s, Gibson Burrell and Gareth Morgan were young scholars from the United Kingdom who pondered the discordance that characterized the field of sociology in the latter half of the 20th century. Their 1979 book titled *Sociological Paradigms and Organizational Analysis* explored the philosophical traditions that influenced various schools of thought.

In the book, they developed a representation of four distinct schools or “paradigms” within sociology, which embody contrasting assumptions about the nature of society and the appropriate approach to its study. The four paradigms reflect beliefs regarding two issues or dimensions, whether the nature of social phenomena is inherently objective or subjective and whether the study of society should focus on societal regulation (or stability) or on radical societal change. The four paradigms are the functionalist (objective, regulation), interpretive (subjective, regulation), radical humanist (subjective, radical change), and radical structuralist (objective, radical change). At the time of their writing, the functionalist paradigm, which is associated with modernity and the age of science, dominated sociology and organizational analysis; Burrell and Morgan noted that the other paradigms shared the quality of being a response or reaction to functionalism. More than 30 years later, functionalist domination or hegemony continues, though to a lesser degree, in part reflecting the influence of this foundational book in encouraging work within the “reactive” paradigms.

While Burrell and Morgan clearly viewed the four paradigms as mutually exclusive, there is continued debate as to whether the paradigms are incommensurate or can be “bridged” and whether bridging would be of benefit. Importantly, these debates are not merely academic exercises but also shape what is studied, learned, thought, expected, and experienced in and about organizations and society. This entry elaborates on the context of the theory’s development, its impact, and contemporary debates regarding it.

**Fundamentals**

**Philosophy and Paradigms**

Using the language of philosophy, Burrell and Morgan proposed that theories of organizations reflect assumptions that are often implicit and taken-for-granted by theorists and those who are influenced by their theorizing. These assumptions have an ontological nature, meaning that they concern the essence of phenomena and reality: “whether ‘reality’ is a given ‘out there’ in the world, or the product of one’s mind” (1979, p. 1). They also have an epistemological nature and reflect beliefs about knowledge, namely, what it is, how it is obtained, and if and how it is discerned to be “true.” The authors
Analytical and Sociological Paradigms

propose that there are also embedded assumptions about the relationship between humans and the social world, namely, if humans are conditioned and become products of their society or if there is a large potential for human action or agency to evoke social change. Last, Burrell and Morgan put forth the idea that beliefs about ontology, epistemology, and human nature shape methodology, or how one should go about investigating social phenomena in order to obtain knowledge.

Burrell and Morgan presented four intellectual traditions or paradigms. Before describing each of the paradigms, it is important to note that the use of the word paradigm in this application to sociology and organization theory has a distinct meaning from that of the early work of Thomas M. Kuhn in discussions of the physical sciences. Norman Jackson and Pippa Carter have detailed that according to Kuhn, a paradigm of “normal science” comes to dominate, despite an inability to explain all phenomena. Over time, the incidents of anomalies that cannot be explained by the reigning paradigm increase, leading to new theorizing and development of a new paradigm, which—if successful—comes to replace or supersede the (older) dominant paradigm and becomes the new normal science. So in the Kuhnian view, there is always a dominant paradigm, though dominance shifts from one paradigm to another as new knowledge is gained. Burrell and Morgan instead present their four paradigms as existing simultaneously and in tension with each other. It is also important to note that much of their discussion of the paradigms in the 1979 book regarded the societal, rather than the organizational, level of analysis, despite the book’s title. Some implications for organizations would be forthcoming over the next few decades, most notably in critical management studies.

The Four Paradigms

As seen in Figure 1, the horizontal dimension of the model refers to different representations of management “reality”—as inherently relativistic and dependent on the perspective of the individual, versus comprising tangible elements that are related in regular, relatively predictable ways. The vertical dimension of the model refers to different suppositions of management “focus”—on societal regulation, order, unity, and integration versus on societal tensions, conflict, inequality, and liberation.

The aforementioned dominant functionalist paradigm reflects the assumption that there is an objective reality which is independent of the participant and observer. Social science should follow the principles of normal science derived from the natural sciences; these principles include a researcher who has been formally trained in the scientific method and endeavors to search for knowledge in a manner that is unbiased by personal values. Functionalism believes in the development and progress of society based on a problem-solving approach, with solutions that seek to tweak rather than overthrow the status quo. It stresses that knowledge learned from a particular study can often be applied or generalized
to other situations. Based on the application of knowledge to other contexts and development of new knowledge, the social world is seen as characterized by either certainty or predictability. The functionalist paradigm is illustrated by the ubiquitous contingency approach to organizations. Based on the results of previous studies, factors such as its size, age, and technology determine the “best way” for a particular organization to be managed and become efficient and effective.

The second interpretive paradigm is similar to functionalism in stressing regulation or maintenance of the status quo, but it does this largely by default rather than by choice. Great emphasis is placed on the subjectivity of human experience. Here, functionalism’s notions of generalizability and predictability have no legitimacy or relevance; instead, the emphasis is on gaining understanding and meaning from the perspective of involved participants, as understanding and meaning of the social world can occur only at the level of subjective experience. Indeed, rather than the subjective experience of an objective reality, according to the interpretive paradigm, reality is enacted or socially constructed by participants. As Morgan stated in 1984, in a reflection on the paradigms, “The whole thrust of the interpretive paradigm is to suggest that the world we inhabit is much more of our own making than we are usually prepared to recognize” (Morgan, 1984, p. 306). Interpretive research is illustrated by the ethnographic, participant-observer approach of John Van Maanen, who once participated in a police training program in order to gain understanding of the socialization process of new police officers and gain insight into their job-related attitudes.

The third paradigm presented by Burrell and Morgan is radical humanism, which is oppositional to functionalism in being both subjective and stressing radical change of status quo. Radical humanists stress human consciousness and the alienation and sense of powerlessness that results from being embedded in social structure (such as organizations). It is associated with the writing of the young Karl Marx and the Frankfurt critical school of philosophy or its critical theory, most notably that of Jürgen Habermas. According to Habermas, knowledge is never neutral but instead serves human interests. Radical humanism assumes that emancipation of the human spirit and fulfillment of human potential can be brought about only by overcoming learned inaction and enacting radical social change. Reflecting the radical humanist paradigm, John Mingers had advanced that management education should present managing as a broad, important activity that is both “done by all” and “done to all” and that learning should be viewed as the process of one’s self-development related to real-life struggles.

The fourth paradigm of radical structuralism is represented by the later work of Karl Marx. It is committed to emancipation from existing societal power structures and concentrates on power relationships within an objective, realist perspective that is similar to functionalism. Compared to radical humanism, radical structuralism is less about emancipation of the human spirit and more about the potential to generate mechanisms that can reveal and change existing “deep” social structure and the status quo of power. Similar to Marx’s radical structuralist position regarding workers, Margaret Blair has advanced that knowledge-age employees “own” much of the firm’s intellectual capital but are not adequately compensated for their contributions. But unlike Marx, Blair’s solution to employees’ experience of injustice maintains a capitalist context; her “mediating hierarchy approach” advocates that employees gain voice in controlling the firm and representing their interests through the means of activist employee ownership. Radical structuralism unabashedly encourages revolutionary change in organizations and governments, which are instruments of domination, by encouraging radical change to social praxis. Power structures in organizations and social divisions in the workplace reflect the broader societal structure.

In summary, social research in functionalism is about capturing and codifying social reality; in interpretivism, it reflects on constructing social reality; in radical humanism, social research is about critiquing reality; and in radical structuralism, it is about confronting social reality.

Evolution

The Context and Contribution of Sociological Paradigms and Organizational Analysis

Management is a broad, applied social science that is eclectic in developing from and tapping into a range of basic and applied social science fields. But sociology, namely, the sociology of organizations,
is the foundational social science for the field of management. Much of the conceptualization and language of management, including culture, roles, norms, and power, reflects the influence of sociological thought regarding organizations.

In the latter part of the 20th century, sociology was in flux. Talcott Parsons and his adherents, known as the structuralists, had dominated sociology for several decades. Parsonian sociology explains how social order or the status quo is maintained through means including culture, roles, norms, and power. What Parsonian sociology did not explain is how social order is not omnipotent but rather is in tension with sources of disorder and how social transformation can occur. There was little if any recognition of human agency or the human potential to react to imposed structure and generate change in Parsons’s writings, leading U.K. sociologist Anthony Giddens to refer to Parsons’s view of humans as “social dopes.” Giddens’s development of structuration theory provided an intellectual basis for understanding how society is indeed not only self-perpetuating but also can and does change through human agency, and it came to eclipse Parsonian sociology.

But the issues with Parsonian sociology exceeded its inability to explain social change. Parsonian sociology represented the American domination of sociology, and as such, it unquestionably viewed the model of normal science developed in the physical sciences by Newton and others as appropriate for the social sciences. Other sociology scholars, particularly some in Europe, were working well outside the boundaries of normal science, developing new theory by in part revisiting the work of Marx and others on emancipation and domination. Yet other scholars were questioning whether results of management studies could be applied or generalized to a range of situations, given the context-specific nature of human existence and organizational life.

Burrell and Morgan entered the fray in 1979. At a superficial level, their book Sociological Paradigms and Organizational Analysis contributed by developing a categorization scheme of approaches to sociology. But to view Burrell and Morgan’s work at a superficial level is a great disservice, as it is not merely another management theory but rather is a successful attempt at the difficult intellectual task of developing metatheory, or developing theory about theorizing. Their bold attempt to broaden management theory by introducing several nonorthodox, marginalized perspectives from the periphery to an audience that was previously unaware of the perspectives was a highly successful endeavor. Since then, a number of important research streams have expanded on their thinking or applied their logic in new directions. For example, the radical paradigms are the foundation of the large, influential body of work known as critical management studies (CMS), which was begun in the 1990s by scholars in the United Kingdom who applied critical theory to the domain of management. CMS challenges the view of organizations as a means for attainment of rational, economic-based goals, as this view tends to reduce humans—both managers as well as nonmanagers—to part of the organizational machine. CMS advocates for a less dehumanizing, less corrupt form of management, which would stress the production and distribution of socially useful goods and service and would place emphasis on management’s moral and political as well as its technical aspects. Other extensions of the heterodox paradigms include Ken Benson’s dialectical theory of organizations and Sumantra Goshal’s model of “bad” theories.

Pluralism or Solo Acts, Harmony or Cacophony?

There is a paradoxical quality to Sociological Paradigms and Organizational Analysis. First, while Burrell and Morgan successfully articulate the four paradigms, they claim that interparadigmatic research occurs rarely, as it requires that a researcher who can inhabit only one paradigm engage in the seemingly quixotic task of changing his or her paradigmatic assumptions. Yet Burrell and Morgan did so themselves, and quite well. Second, they were also quite neutral in their depiction of the paradigms, which suggests that researchers can indeed achieve a level of objectivity. Third, they refer to as “fact” that the paradigms are mutually exclusive and that a synthesis of them is not possible, given their contradictory assumptions. That researchers who are not in the functionalist paradigm should refer to an aspect of metatheory as fact is a strange juxtaposition of paradigms.

There was a groundswell of critique as well as praise for the book across a range of researchers. Comments included that the authors oversimplified and did not pay adequate attention to the diversity or schools of thought within each paradigm, that researchers can have an affinity to more than one
paradigm, and that the book was weakest in the contrast between the two radical paradigms and its rumination about “antiorganization theory.” Both radical paradigms focus on the political and exploitative aspects of organizations, and it is somewhat difficult to discern differences between the two of them in Burrell and Morgan’s writing. But perhaps the greatest critique and debate regards their strong assertion about the paradigms’ mutual exclusivity.

Despite the fact of paradigm mutual exclusivity, researchers have explored the issue of the potential for paradigm commensurability and present a range of thoughts. Norman Jackson and Pippa Carter have defended mutual exclusivity and expressed concern that attempts at commensurability are really attempts at assimilation of the heterodox paradigms into functionalism. Martin Parker and Gerard McHugh unabashedly critique a study involving a cross-paradigmatic approach but then suggest (perhaps in a barb at the reviewed study) that it can be accomplished if integrity of the paradigms is respected. Dennis Gioia and Evelyn Pitre believe that the paradigms are fundamentally incommensurable but do have permeable boundaries and can be bridged, while Gary Weaver and Gioia add that the paradigms can be connected or bridged by researchers who are positioned at points near the center of Figure 1 and diversity or pluralism in paradigms can be maintained despite the bridging. Marianne Lewis and Mikaela Kelemen have outlined an approach for multiparadigm inquiry and suggest that this type of inquiry, based on pluralism and paradox, might yield the new insights.

**Importance**

There are many broad and encompassing typologies and categorization schemes within management theory, and many are included in this encyclopedia. Of these, Burrell and Morgan’s set of paradigms is certainly among the most provocative and influential. Their work forces into consciousness much that is deeply embedded as unquestioned truth. It causes us to think about the nature of social reality, namely, how our training and experiences form a lens through which we experience and interpret social reality; and it develops our sense of epistemology, or what we think of as knowledge about the social world.

On the one hand, from a theoretical perspective, Burrell and Morgan were advocating for future research that would place at the forefront the desire to improve the human condition by radically altering social structure. Yet despite all of the subsequent theorizing, much that is fundamental about our relationship with the paradigms is far from clear. As was said in a review of the book by Orion White in 1983, surfacing paradigmatic commitments could improve theory building. But it is also possible that under some conditions, the unearthing of our paradigmatic tendencies could make us potentially rigid and defensive regarding them or possibly lead us to overly question ourselves and become weakened as researchers, students, and practitioners of management. It is also unclear if and under what conditions we are prisoners, citizens, squatters, converts, tourists, or tour guides of our paradigms.

On the other hand, from an applied perspective, the practical implication of heterodox research—what practicing managers can “learn” from it to improve their organizations and people’s experiences of and within them—is underdeveloped. But this critique could also be said of orthodox functionalist research. Yet several implications have emerged from the three heterodox paradigms that have undoubtedly greatly influenced both “orthodox” researchers and management practitioners. These include the important role of subjective experience in affecting one’s understanding of a phenomenon, that power and power differentials shape societies and human experience, that the teaching of assumptions regarding human behavior in business programs (i.e., self-interest as a motivator in agency theory) can be interpreted as legitimating these assumptions, and that managerial action should be informed by critical reflection regarding assumptions and lived experiences. The heterodox paradigms bring forth the realization that the body of knowledge known as management is based on deeply rooted assumptions and values as to what is right and what is desirable. The paradigms present us with the possibility that organizations including business firms can become instruments of change that include the attainment of greater social justice among their goals.

*Marguerite Schneider*

*See also* Adaptive Structuration Theory; Critical Management Studies; Social Construction Theory; Structuration Theory; Theory Development
Further Readings


APPRECIATIVE INQUIRY MODEL

Appreciative inquiry (AI) is a method for studying and changing social systems (groups, organizations, communities) that advocates collective inquiry into the best of what is in order to imagine what could be, followed by collective design of a desired future state that is compelling and, thus, does not require the use of incentives, coercion, or persuasion for planned change to occur. Developed and extended since the mid-1980s primarily by students and faculty of the Department of Organizational Behavior at Case Western Reserve University, AI revolutionized the field of organization development and was a precursor to the rise of positive organizational studies and the strengths-based movement in American management. The following entry describes the principles of AI, the most common methods, and the impact of AI.

Fundamentals

Appreciative inquiry is a response to the centrality of problem solving in managerial work and the classical action research approach to organizational inquiry and change. The originator of AI, David Cooperrider, emphasizes the limitations of problem solving for expanding human horizons and possibilities. Pointing out that the most powerful force for change is a new idea, Cooperrider argues that we need forms of inquiry and change that are generative: They help us discover what could be, rather than try to fix what is. Responding to the postmodernist argument that all social research is inherently biased by the positioning of the researcher, he suggests this is not a reason to give up the pursuit of knowledge. On the contrary, it frees us to take the idea that organizations are made and imagined to its logical conclusion: that what we choose to study and how we study it creates, as much as it discovers, the world. Therefore, a wide field of creative, positive possibility beckons to us.

The AI model is based on the assumptions that organizations are socially constructed phenomena, which have no tangible reality, and that ways of organizing are limited only by human imagination and the agreements people make with each other. It seeks to create processes of inquiry that will result in better, more effective, convivial, sustainable, and vital social systems. It assumes this requires widespread engagement by those who will ultimately implement change.

Principles of Appreciative Inquiry

For the first 15 or so years after the publication of his seminal 1987 paper on appreciative inquiry, Cooperrider resisted calls to write a book on how to do it. Instead, he wanted people to focus on the principles of the model and encouraged widespread innovation in methods. As a result, many ways of doing AI have proliferated, and it is inaccurate to say there is any one way to do it. The initial set of principles for AI was that the inquiry should begin with appreciation, should be collaborative, should be provocative, and should be applicable. Later, Cooperrider and Diana Whitney published a set of five principles that are widely cited and applied.

1. The constructionist principle proposes that what we believe to be true determines what we do, and thought and action emerge out of
Appreciative Inquiry Model

1. Relationships. Through the language and discourse of day to day interactions, people co-construct the organizations they inhabit. The purpose of inquiry is to stimulate new ideas, stories, and images that generate new possibilities for action.

2. The principle of simultaneity proposes that as we inquire into human systems, we change them, and the seeds of change, the things people think and talk about, what they discover and learn, are implicit in the very first questions asked. Questions are never neutral, they are fateful, and social systems move in the direction of the questions they most persistently and passionately discuss.

3. The poetic principle proposes that organizational life is expressed in the stories people tell each other every day, and the story of the organization is constantly being coauthored. The words and topics chosen for inquiry have an impact far beyond just the words themselves. They invoke sentiments, understandings, and worlds of meaning. In all phases of the inquiry, effort is put into using words that point to, enliven, and inspire the best in people.

4. The anticipatory principle posits that what we do today is guided by our image of the future. Human systems are forever projecting ahead of themselves a horizon of expectation that brings the future powerfully into the present as a mobilizing agent. Appreciative inquiry uses artful creation of positive imagery on a collective basis to refashion anticipatory reality.

5. The positive principle proposes that momentum and sustainable change require positive affect and social bonding. Sentiments like hope, excitement, inspiration, camaraderie, and joy increase creativity, openness to new ideas and people, and cognitive flexibility. They also promote the strong connections and relationships between people, particularly between groups in conflict, required for collective inquiry and change.

The Appreciative Inquiry Method

In the late 1990s, the “4D” model emerged and has become strongly associated with AI. This model identifies four phases in AI that occur after the “affirmative topic” is chosen. The affirmative topic is the focus of the inquiry (e.g., increased customer satisfaction, improved health and safety, more effective operations) but phrased in lively, inspiring language (e.g., inspiring fanatically loyal customers).

Discovery. During this stage, participants reflect on and discuss the best of what is concerning the object of inquiry. Most often, and this appears to be a key innovation of the AI method, participants are interviewed about their own “best of” stories (e.g., tell me about the time a business most inspired fanatical loyalty in you). Another important innovation has been to have organizational members and stakeholders act as both interviewers and interviewees, that is, to fully engage all affected parties in the act of inquiry itself. Telling and listening to meaningful, personal stories is considered central to creating widespread engagement and building relationships in the early stage of the change process. The affirmative topic is turned into a question (e.g., how do companies inspire fanatically loyal customers?), and answers stimulated by the stories are identified and shared.

Dream. During this stage, participants are asked to imagine their group, organization, or community at its best in relation to the affirmative topic. An attempt is made to identify the common aspirations of system members and to symbolize this in some way. The dream phase often results in something more symbolic, such as a graphical representation, than a mission statement.

Design. With a common dream in place, participants are asked to develop concrete proposals for the new organizational state. Initially, Cooperrider called these “provocative propositions”—a phrase linked to generative theory that still appears in some models. More commonly, social architecture processes are employed where a model of design elements is used to identify categories for participants to organize around and create change proposals, often called possibility statements or design statements.

Delivery/destiny. In the initial four-dimensional, or 4-D, model, the fourth stage was called delivery, but this was subsequently changed by Cooperrider to destiny as he found that delivery evoked images of
traditional change management implementation. Exactly what ought to happen in this phase has provoked the most confusion and the least consensus among AI theorists who recognize that using the outcomes of design to create new targets, gaps to fill, and objectives to achieve may be counter to the very philosophy of appreciative inquiry. The most innovative applications have taken an improvisational, as opposed to implementational, approach. Widespread agreement for the design statements are sought, an event is orchestrated where participants make self-chosen commitments to take action consistent with any design element, and leadership makes clear that there will be no action plans or committees—instead, everyone is authorized to take those actions they believe will help bring the design to fruition. Leadership’s role is to monitor and support those innovations they want to nurture and create events and processes to energize emergent and self-organizing change.

Many different approaches to AI have been identified, ranging from interventions in which a sole consultant or a small representative group of people do the AI on behalf of a larger group of people to those where most or all of the whole system is engaged in the entire 4-D process in a compressed time span. The majority of published studies of transformational change have been of the latter variety, leading to an increasing emphasis in the AI literature on widespread, synchronous engagement as central to successful AI change efforts. One particular variant, the Appreciative Inquiry Summit, has become the most often advocated form of engagement—ideally a four-day event in which all system members complete all four phases. There are some voices, however, that caution against seeing AI as an “event,” however large scale, and argue that it is more effective to think of AI as a long-term process punctuated by events. They suggest that as much or more change comes from daily interactions at work, as people discuss the inquiry, trade stories, and are impacted by new conversations, as it does from new ideas or plans.

Importance
AI has had a profound impact on organizational-development practice around the world in business, nonprofit, and governmental organizations as well as communities. AI produces transformational change without crises or “burning platforms.” Hundreds of significant appreciative inquiries have been documented and described at conferences, in journals and books, in the AI Practitioner (a quarterly magazine), and through the Appreciative Inquiry Commons (a website). Some outstanding examples include the use of AI to create the United Nations Global Compact; Imagine Chicago, an AI-inspired community-development process copied around the world; and Walmart’s use of AI for its global-sustainability initiatives.

Empirical assessments of AI are limited but are more plentiful than for most organizational change strategies. There is a growing body of longitudinal and critical research that is identifying moderating and mediating conditions that affect how AI is best done and under what conditions, opportunities, and limitations. AI does not magically overcome any of the requirements for effective leadership, resourcing, and skilled facilitation of any other organizational-development or large-group intervention. Its unique significance has been in bringing social constructionist theory into widespread consideration in managerial practice, identifying the power of possibility-centric versus problem-centric change strategies, forcing an examination of the impact of positive emotions on change processes, and offering generativity, instead of problem solving, as a way to address social and organizational issues.

Gervase R. Bushe

See also Action Research; Large Group Interventions; Organizational Development; Social Construction Theory; Strategies for Change

Further Readings
ARCHITECTURAL INNOVATION

Architectural innovations are those based on linkages between product components rather than significant breakthroughs in the components themselves. The concept can illustrate how product innovation affects organizational procedures and competitive strategy. This entry addresses the details of architectural innovation, how changes in component linkages interact with organizational skills and procedures, and how the concept interacts with market dynamics to produce competitive advantages, and concludes with a discussion of the potential pitfalls facing managers attempting to foster innovation.

Fundamentals

Product architecture is the link that integrates components into a functioning product, whereas architectural innovation changes the architecture or the manner in which the components work together as opposed to changing the components themselves. For instance, the typical coffeemaker consists of housing, filter basket, carafe, power supply, heating element, water reservoir, and water pump. Coffee potency can be adjusted by increasing the contact time between hot water and ground coffee. Therefore, a coffeemaker that controls the flow through the coffee grounds and water pumping rate could adjust coffee potency; this is an architectural innovation. This illustrates how architectural innovation does not require significant changes in the product components, only in how they are linked together. Components within the architecture may change (smaller, lighter, etc.), but the basic component technology remains the same. In our example, the innovation was enabled by a new pump with an easily controlled flow rate, but the core design concept would still be that of a pump.

Architectural innovation fits into a two-by-two matrix that explains innovation as an interaction between changes in product linkages versus changes in core-component concepts. Innovations relying on changes to the linkages only are the architectural innovations under discussion. Changes that overturn the core-component technology but leave the linkages unchanged are modular innovation. For instance, a digital-telephone dialer is a significant component-technology change compared to a digital dialer, but it still accomplishes the same architectural task. Changes which affect neither the linkages nor the core-component technology are incremental innovations, and those that affect both are radical innovations.

Architectural innovation fits into a spectrum including incremental and radical innovation. Incremental innovation improves component performance without significant architectural change. A radical or disruptive innovation relies on entirely new engineering or scientific principles and can render both component and architectural knowledge obsolete.

Product architecture is often mirrored in the technical skills and managerial procedures of the firms producing the product. Firms manufacturing coffeemakers may have separate departments skilled at molding of housings, producing filter baskets and carafes, and designing power supply, heating elements, and pumping of water to a heating chamber. Firms would also develop procedures and problem-solving routines, so the departments could collaborate. These skills and procedures become the firm’s core capabilities, positioning it to exploit incremental-component innovations and react effectively when competitors introduce incremental-component innovations. However, firms may not react well when faced with architectural innovations. The warning signs of such innovations may not be recognized due to the very skills and procedures...
Architectural Innovation

built into the organization around the original product architecture. For instance, the introduction of a coffeemaker that uses a packet containing ground coffee with an integral filter to produce one cup would eliminate the need for a carafe and filter basket. Firms with carafe and filter-basket departments might experience internal resistance in responding to this innovation. Their core capabilities have become core rigidities that inhibit their response to innovation. Firms that excel at building component-core capabilities are often trapped in their original product architecture and suffer competitive failure when the market-accepted architecture shifts.

Architectural innovations have both marketing and technology implications and are often introduced by firms challenging the dominant firm in an industry. The dominant firm is often inhibited from introducing innovative architectures by the lack of appropriate skills and procedures or by being bound to what they know—the existing “successful” mindset. Additionally, the initial architectural innovations are often inferior to incumbent architectures when measured by parameters valued by customers served by the dominant firm. The low value placed on the initial performance of the architectural innovation further inhibits dominant firms from exploiting the innovation. The dominant firm risks a myopic view by being wedded to a specific product and its structure rather than providing value to a broad range of customers.

Challenger firms may introduce architectural innovations into adjacent markets considered unimportant by the dominant firm, but where the innovation has an advantage valued by the market. As the challenger deploys the architectural innovation into the adjacent market, that market develops the expertise and cash flows to steadily improve the new architecture until it is superior to the originally dominant architecture. The dominant firm finds its market position challenged by a superior performing product architecture and could rapidly lose its dominant position to the new entrant with an architectural innovation.

The architectural-innovation model provides insight for practicing managers to build ambidextrous organizations that can nurture both incremental innovations in the dominant architecture and architectural innovations with disruptive potential. Such ambidextrous organizations are inherently unstable, and the more profitable and powerful traditional parts of the firm associated with the dominant architecture will often overpower the younger entrepreneurs that pursue architectural innovations within the firm. It is often necessary to shield architectural innovations in separate facilities with different managers and cultures. Seiko shielded the development of the quartz-watch movement from its dominant culture built around the mechanical-watch movement. Firms can sustain a competitive advantage by actively managing a stream of incremental innovations, fundamentally new innovations, and architectural innovations. Senior management must provide balance between these competing needs for organizational resources and build an organization that can perform both today and in the future.

John C. Byrne and Thomas V. Edwards Jr.

See also First-Mover Advantages and Disadvantages; Innovation Diffusion; Innovation Speed; Patterns of Innovation; Technology S-Curve

Further Readings


ASCH EFFECT

Solomon E. Asch conducted a series of experiments on group pressure in the 1940s. The results of these experiments are known in the field of social psychology and organizational management as the Asch effect or the Asch experiments on conformity. The Asch effect is the phenomenon of group consensus and social pressure that influences an individual to change a correct answer in reaction to group members’ incorrect answer to the same question. First published in 1952, the experiments’ results document the degree to which the experiments’ subjects were influenced by the opinions of their fellow participants. This entry highlights the series of experiments that established the Asch effect, along with the general conclusion that social pressure can convince group members to falsify their beliefs in response to even mild social pressure. Beginning with a brief review of Solomon E. Asch’s career and his experiments, this entry explores the results of his experiments on group consensus and their implications for management.

Fundamentals

While at Columbia University, Solomon E. Asch began to study social pressure after reading Edward Thorndike’s work on the law of effect regarding positive reinforcement. Deciding to test whether group pressure might have an effect on incorrect responses, Asch designed the experiment. The results of these studies have become known as the Asch effect.

Asch began conducting his experiments while teaching at Swarthmore College. The question he sought to answer was how do individuals conform to the opinions of a peer group? To answer the question, Asch designed his experiment to test a group of students who are gathered and seated in a room, where the “subject” is seated toward the back of the room. The entire group is shown two pictures. The first is a picture of a line, and the second is a picture of three different sized lines, only one of which is the same size as the line in the original picture.

After the pictures are shown to the group, the group is asked a series of questions about the pictures. The other participants have been instructed to answer the questions incorrectly by continuing to agree that one of the unequal lines in the second picture is actually the same size as the original line in the first picture. The experiment tests the single subject’s ability to voice his own opinion, regardless of the opinions expressed repeatedly by of those around him.

The subject hears incorrect answers from the other participants. On average, the subject disagrees the first time and responds with the correct answer. For the second trial, the subject usually disagrees again, even though the rest of the group remains committed to their wrong answer. At this point, the subject usually shows visible signs of discomfort. In spite of the subject’s own visual perception, a significant number of subjects agree with the crowd. The subjects who agree give several explanations why. The two reasons they give most often for going along with the group is either that they think that the majority has to be correct or that they believe that it is important to the experiment’s structure that their answers agree with the group’s answers. The responses of the subjects can take three forms. The subjects can always disagree with the group, the subject can always agree with the group, or the subject can switch between disagreement and agreement.

As a follow-up to the experiment, when subjects were tested alone, they answered correctly 99% of the time. When the subjects had been a part of the experiment, the subjects conformed to the group consensus 36.8% of the time by continuing to change their answers in order to go along with the group. Overall in the experiment trials, 75% of the subjects changed at least one of their responses to the experiment’s multiple questions, in order to conform to the group consensus. Conversely, 25% of the subjects stayed with their answers and remained committed to their own judgment throughout all of the trials of the experiment.

Asch observed several types of behavior while he was conducting his experiments. He noted that while the subject is actually answering the question correctly, the subject is placed in the position of being evaluated as if he has actually given the wrong answer. This situation sets up a contradiction between the public evidence of the subject’s publicly stated opinion and the group consensus. Asch noted several possible behaviors as a result of the situation; however, in only a few of the experimenter’s trials did subjects openly identify the group’s collusion.

While Asch chose not to draw any firm conclusions about motivations, he came to believe that the
experiment tested a key assumption about how we see the world. Asch was equally interested in what caused the subjects to conform to group pressures as he was interested in what caused the subject to resist group pressures for consensus. He concluded that the experiment had implications for both individual values and the formal educational system.

This series of experiments has been re-run many times since it was first reported in the 1950s. The experiments have been redesigned by theorists in order to test many different variables including the size of the overall group and the number of subjects in the experiment, as well as age, ethnicity, country of birth, sex, and subject's social status. In addition, the experiment has been re-run under the same conditions with time the only variable. While there has been variation reported in the results of many of the studies, the primary conclusion stands firm. There is a persistent tendency for people to react to group pressure and to go along with group consensus.

The Asch effect illustrates to managers that colleagues and employees may be tempted to change their voiced beliefs in response to group pressure, in order to achieve consensus. This phenomenon highlights the importance for managers to avoid accepting group decisions without first exploring the process. To avoid suboptimum decision making, managers need to dig below the surface so that different opinions are considered and the best possible solution is achieved.

Joanne L. Tritsch

See also Groupthink; Organizational Identification; Organically Based Self-Esteem; Participative Model of Decision Making; Theory of Self-Esteem

Further Readings

**Attraction-Selection-Attrition Model**

The attraction-selection-attrition (ASA) model introduced by Benjamin Schneider is a psychological theory that describes why organizations look and feel the way they do. It is a person-based model for understanding the etiology of organizational behavior by considering person effects as the causes of structures, processes, and technology of organizations. The model, in particular, elucidates how individuals join and leave organizations, stating that people are functions of three interrelated dynamic processes: attraction, selection, and attrition. Individuals are attracted to, selected by, and retained in organizations whose members are similar to themselves in terms of psychological attributes. The ASA cycle determines the kinds of people in an organization, which consequently defines the nature of the organization, the structures, processes, and culture. Its focus on the determinants of organizational behavior makes the theory relevant as a general management model. An overview of the fundamental propositions of ASA theory is provided, as are arguments on its validity and impact.

**Fundamentals**

In the 1980s, the ASA framework originated as a reaction to situational theories that focused on the influence of situational variables (e.g., groups, technology, structures) on organizational behavior. The theory attributes causes to people rather than the results of people’s behavior. The first and main assumption posits that organizations are functions of the kinds of people they contain. As Schneider formulated in his seminal paper, attributes of people, not the nature of external environments or organizational technology or organizational structure, are the fundamental determinants of organizational behavior. As such, Schneider reformulated Kurt Lewin’s well-known hypothesis (i.e., $B = f(PE)$), by stating that environments are functions of the persons behaving in them; that is, $E = f(PB)$. In his second fundamental statement, Schneider emphasizes that people are not randomly assigned to settings. The kinds of people in an organization are the function of an ASA cycle. It is the people who are attracted to, selected by, and remain in a setting, that eventually determine the setting.
Rationale

The framework departs from organizations (not individuals) as the unit of analysis. It attempts to understand interorganizational differences through a focus on the attributes of people. Following the core assumptions, the outcome of the ASA cycle determines why organizations look and feel different from each other. People are attracted to, and prefer, matching types of organizations, organizations select matching types of individuals (who share many common psychological attributes, although they may differ on some competencies) to join the organization, and nonmatching individuals finally leave the organization by the attrition process. The people who become part of the organization and stay based on these processes, in turn, define the nature of the organization and its structure, processes, and culture. According to Schneider, it is, thus, the people who make the place rather than the place that makes the people. As dispositional attributes relevant to the ASA cycle, Schneider names personality, attitudes, and values. Since people who fit tend to enter and people who do not fit tend to leave, the people who remain will constitute a more homogeneous group than those who were initially attracted to the setting. Schneider calls this the homogeneity hypothesis. The downside of this within-organization homogeneity is that it can be detrimental to long-term organizational viability. Organizations can become so ingrown that they fail to adapt their processes and structure to environmental changes, endangering the organizational survival. According to the ASA model, homogeneity may produce positive consequences in its early stages but negative consequences in later stages.

The propositions of ASA can be summarized as follows:

1. People select themselves into and out of an organization based upon an implicit estimate of the fit between their own characteristics and the attributes of the organization.
2. The people who are attracted to, selected by, and remain in the organization ultimately determine the structures, processes, and cultures that characterize the organization.
3. The ASA cycle produces restrictions in range in the kinds of people in an organization (homogeneity hypothesis).
4. The goals of the organization and the processes, structures, and culture that emerge from them are determined by the characteristics of the founders and those of their early colleagues.

Context

The theory originates from interactional psychology and is part of the larger person-environment fit literature that emphasizes the importance of considering the reciprocal relationships that exist between individuals and their employing organizations. The ASA cycle is closely related to the socialization process that describes how new members fit into specific organizations. However, due to the focus on organizations as unit of analysis, the ASA framework attempts to predict and understand organizational behavior rather than behavior of individuals. Furthermore, the ASA theory builds upon personality research, vocational psychology, and industrial-organizational (I/O) psychology. The first stream of literature lent the idea of the importance of the interplay of personal and situational factors in establishing behavior. The second stream of literature lent the idea that people are differently drawn to environments as a function of their own interests and personality, whereas turnover studies from the third stream of literature offered the idea that people who do not fit an environment will tend to leave it.

Importance

ASA theory stands in dark contrast to the situationist perspective, which is often emphasized in leadership literature (e.g., situational leadership), literature on the dynamics of the external environment (e.g., contingency theory), and job-design literature (job-characteristics model). Although this situationist perspective is often supported by empirical evidence, the person perspective from the ASA theory has also gained support. Schneider's propositions were empirically tested and theoretically discussed in diverse research domains. Theoretically, personality research confirms that people choose themselves into settings that fit their personality, and organizational-demography research confirms that people choose themselves into settings that fit their demographic characteristics (such as gender, age, and educational background). Empirically, several case studies on founders lend support to the role of managers in the long-term culture of organizations. This literature
suggests that managers’ psychological characteristics are related to the goals and the culture of their organization and that these are reflected in the attributes of the people attracted to, selected by, and retained by the organization. Yet most validity evidence concerns the homogeneity hypothesis. Direct as well as indirect evidence was found in several research domains using diverse measurement techniques. Research based on calculated, objective person-organization fit, such as the Q-sort technique, as well as research based on self-reported perceptions of subjective fit, revealed indirect support. These type of studies confirm that employees are more likely to enter and less likely to leave when the fit of personal values and organizational values is high. Empirical evidence further supports the importance of value congruence between supervisors and subordinates, between managers and their organizations, and between employees and their organizations since it predicts psychological health, positive attitudes, and intention to stay. Anecdotal evidence supports that culture fit rather than competencies fit is used as a basis for hiring—also referred to as the “hiring the right type” syndrome. A final part of indirect support originates from the social-psychological literature which refers to the attraction paradigm and the “similar-to-me” phenomenon. Most studies that directly tested the homogeneity hypothesis used laboratory studies. A few also used field studies, but studies on personality homogeneity are scarce in comparison to studies on homogeneity in demographics. Recently, a couple of personality homogenization studies have suggested that homogenization primarily occurs after the attraction and selection phase assuming that posthire attraction is the major homogenizing force.

**Implications for Theory**

The ASA theory offers important implications for theory, in particular for personality research and specific domains in organizational behavior theory. First of all, based on the ASA theory, one expects that personality and interest measures are not designed to make fine-grained distinctions within organizations among people who are relatively similar to begin with. Valuable data could be generated by the use of existing personality and interest measures administered to the members of entire organizations. Second, the model is important for theories on organizational culture in that over time, the ASA cycle leads to the consolidation of organizational culture. People in organizations will be similar to each other. They will start to share attributions of cause, which become the stories and myths by which culture is transmitted and consolidated. Third, the theory is relevant for leadership theory. Different kinds of people are likely to be effective leaders in different kinds of organizations. Different traits will be predictive of leadership effectiveness depending on the kinds of people to be led. Finally, the model offers some valuable insights for job attitudes theory. Against a situationist interpretation of what causes positive attitudes, according to the ASA model, people in a setting will have the same job attitudes, so the same organizational conditions will be differentially satisfying to people in different work environments challenging several well-known job-design models.

One limitation of the ASA model is its vague specification of what is meant by psychological attributes and fit. ASA tells nothing about precisely which personal attributes are likely to be reflected in which preferences for organizational attributes. This makes it difficult to operationalize and measure the concept of fit. Testing this theory requires analyses at the organizational level and raises the question of how to index homogeneity and measure fit. The earlier used Euclidean distance occurs less often in research as it is replaced by the polynomial regression technique. Furthermore, objective measures compete with subjective perceptions.

**Implications for Practice**

Although ASA does not present a new technique, test, or training program, it does offer relevant implications for management practice, in particular for organizational change and effectiveness, and personnel recruitment and selection. As regards change management, the ASA model considers increasing homogeneity as having consequences both positive (like psychological well-being) and negative. People are not infinitely adaptable and changeable. Structures and processes will merely change when the behavior of people changes, and the behavior of people will change only when different kinds of people are attracted to, selected by, and stay in the organization. Thus, to ensure long-term viability and competitiveness, organizations should (now and
then) bring in newcomers to change the old-timers’ dispositions. However, they should make sure that these newcomers share some attributes with those already in the organization, which they are expected to change. As regards recruitment and selection, the ASA model suggests that people join and leave whole organizations, not just jobs. Organizations may, therefore, consider selecting people for organizations not just for jobs, for example, by including organizational diagnosis next to job analysis as a basis for personnel selection. Following the potentially negative consequences related to increased homogeneity, at certain times in an organization’s evolution, it may be useful to have good fit, while at other times, it may be useful to promote heterogeneity. Recruitment activities are the best way to bypass self-selection and organizational selection and to yield these “non-right” types required for organizational survival.

Rein De Cooman

See also Managing Diversity; Meaning and Functions of Organizational Culture; Organizational Culture and Effectiveness; Organizational Culture Theory; Organizational Socialization

Further Readings


ATTRIBUTION MODEL OF LEADERSHIP

The attribution model of leadership describes the interactive processes by which leaders and their employees arrive at causal explanations for employee performance in achievement-related situations and how those explanations in turn determine subsequent leader and employee behaviors and the quality of the leader-employee relationship. The model draws significantly from attribution theory, which identifies how individuals determine causes for events and describes how the resulting attributions determine individuals’ emotions, thoughts, motivations, and behaviors. As the success of organizations depends significantly on maximizing employees’ performance levels, understanding how leaders and employees react to employee performance is critical to helping leaders manage feedback and performance processes. This entry begins with an explanation of the evolution of the attribution model of leadership over the past three decades. It continues with a summary of the empirical research conducted on the various elements of the models and concludes by offering critical managerial applications.

Fundamentals

In an effort to better explain leader behaviors, the attribution model of leadership—introduced in the late 1970s and early 1980s—focused on leader’s causal explanations for employee performance. The model indicated that leaders determine the causes for employee performance on a given task by determining to what extent (a) other employees performed equally well or poorly on the task (consensus), (b) the employee frequently performs equally well or poorly on the task across times and situations (consistency), and (c) the employee performs equally well or poorly on other tasks (distinctiveness). This covariation analysis determines whether the leader attributes the performance level to the employee’s internal attributes or to attributes external to the employee thus arriving at either an internal or external attribution. For example, if an employee performs poorly on a certain task, has never performed well on the task (high consistency), also does not perform well on other tasks (low distinctiveness), but other employees generally perform well on the same task (low consensus), then the leader is likely to make an internal attribution and blame the employee’s poor performance on aspects such as a lack of ability or skills.

Because this covariation analysis is complex, effortful leaders often take cognitive shortcuts
and use causal schemata or categories such as ability, effort, task difficulty, and luck to quickly and economically arrive at causal explanations for employee performance. These four commonly used explanations differ across two causal dimensions: locus of causality and stability. Locus of causality refers to whether employee performance is attributed to internal or external causes while stability refers to whether it is attributed to stable or unstable causes. Ability is an internal, stable cause; effort is an internal, unstable cause; task difficulty is an external, stable cause; and luck is an external, unstable cause.

The attribution model of leadership then suggests that leader attributions for employee performance systematically determine leaders’ expectations for future performance and leaders’ behaviors toward the employee. In response to their employees’ poor performance, leaders are more likely to target their corrective actions toward the employee if they make an internal attribution and toward situational factors if they make an external attribution. Leaders, for example, are more likely to punish employees for their poor performance when they make an internal as opposed to an external attribution. Furthermore, leaders are more likely to expect future performance to be consistent with present performance when they attribute employee performance to stable causes likely to persist over time. For instance, if a given task is difficult and may not be made simpler, the leader expects the employee to continue to perform poorly resulting in possibly severe actions, such as demotion or dismissal. When leaders make unstable, internal attributions (i.e., effort), the rewarding or punishing reactions are particularly strong. Leaders believe effort to be under the control of the employee and therefore punish employees’ presumed lack of effort more strongly than when attributing poor performance to less controllable aspects.

Overall, the attribution model of leadership suggests that employee behaviors (i.e., performance) lead to leader attributions, which then lead to leader expectations and behaviors. The model also recognizes that these relationships may be influenced by a variety of different factors such as, among others, personal characteristics of the leader and employee, organizational policies, the quality of the leader-employee relationship, leader’s familiarity with the performance task, and leader’s expectations for employee performance.

**An Interactive Extension of the Model**

While the original model focused primarily on leader attributions for employee performance, later research added employees’ perspectives to the model by positing that employees similarly make attributions regarding their own performance. Extending the model to the dyadic level suggests that meaningful predictions may be made when knowing the extent to which leaders and employees agree or disagree on their causal explanations. Just like leaders, employees either engage in an effortful covariation analysis or use shortcuts to arrive at internal or external and stable or unstable attributions for their own performance, such as ability, effort, task difficulty, and luck.

Interestingly, although leaders and members encounter a similar objective reality, the interactive attribution model of leadership suggests that leaders and employees often arrive at divergent attributions. This is because both leaders’ and employees’ attributional processes are influenced by perceptual biases, such as the actor-observer bias and the self-serving bias. The *actor-observer bias* demonstrates that actors tend to attribute their own actions to situational factors while observers tend to attribute actors’ actions to actors’ personal dispositions. The *self-serving bias* suggests that people tend to attribute success to their own personal dispositions while they attribute failures to other people or situational factors. In combination, the two biases predispose employees to attribute their poor performance to external factors (e.g., to coworkers, to the situation) while they predispose leaders to attribute poor performance to employees’ internal dispositions (e.g., ability, motivation). Over time and repeated interactions, these divergent attributions can lead to high levels of conflict between leaders and employees. For example, a leader may attribute an employee’s poor task performance to a lack of ability while the employee attributes it to an equipment failure. In this circumstance, when the leader reprimands the employee, the employee is likely to be distressed about being blamed for the situation and about the leader not recognizing the equipment problems. Ultimately, this may result in decreased productivity and satisfaction and a deterioration of the leader-employee relationship. When leaders continuously blame members for poor performance, they are more likely to place the employee into their
“out-group,” resulting in less access to resources and less opportunity for development. Employees may then decide to engage in destructive work behaviors (e.g., theft, harassment) or withdrawal (e.g., absenteeism, quitting).

Another result of contradicting attributions may be learned helplessness in employees defined as feelings of anxiety, stress, apathy, and shame associated with repeated failures that are attributed to stable, internal causes. Helpless employees are more likely to give up, withdraw effort, and ultimately leave their jobs. The attribution model of leadership suggests that leaders may induce such learned helplessness in employees when they attribute employee failures to effort while employees attribute their failures to ability. In that case, the leader is more likely to punish the employee, which the employee will perceive as inappropriate and perceive as yet another uncontrollable failure, raising their sense of learned helplessness. The divergent attributions that leaders and employees commonly arrive at may result in detrimental consequences.

Importance

A significant amount of empirical research has been conducted to examine leaders’ attributions for their employees’ performance, primarily with regards to poor performance. Generally, this research provided robust evidence for the basic processes between employee behaviors, leader attributions, and leader behaviors across a variety of studies. For example, several empirical studies confirmed the proposed link between the informational cues of consensus, distinctiveness, and consistency and leader attributions and leader behaviors, such as disciplinary actions, training decisions, and feedback delivery. There is also considerable support for the link between the four primary attributional explanations of ability, effort, task difficulty, and luck and leader reactions. For example, in response to their employees’ poor performance, leaders who make ability attributions generally react less negatively than leaders who make effort attributions. Similarly, leaders were generally more lenient when attributing poor performance to external as opposed to internal factors. Empirical research also supports the assumptions of the model that other personal or situational factors, such as task interdependence and supervisor control, systematically influence the nature of the proposed relationships.

The interactive extension of the model, including both leader and employee attributions, has received much less empirical attention. There is consistent support for the actor-observer bias and the self-serving bias in the psychological and organizational literature, and research suggests that leaders and employees frequently exhibit these biases in their attributional processes. However, there is only limited empirical research that has examined the interactive dynamics of matching and mismatching leader and employee attributions. The limited research available suggests that when leaders and employees are predisposed to making incompatible attributions due to their divergent attribution styles (i.e., tendencies for similar causal explanations across situations and over time), employees perceive the quality of the relationship with their leader as significantly lower. Newest research suggests that people, in addition to making internal and external attributions, may also make attributions to relationships they have with others (i.e., with their leader). These so-called relational attributions can have a significant influence on the development of leader–employee relationships. This trend to continuously advance the attribution model provides additional evidence for the model’s validity and acceptance.

Managerial Applications

Overall, the attribution model of leadership has critical implications for management practice. Since the attributions that leaders make for employee performance influence leaders’ choices regarding how to punish, reward, develop, and react to the employee, it is important for leaders to arrive at accurate attributions. Only then are leaders able to address problems appropriately and provide support in a manner that maximizes employees’ future performance. It is essential that leaders are aware of biases, such as the actor-observer and self-serving bias, and understand how these may impact their decision-making process. Furthermore, the attribution model of leadership suggests that leaders should be proactive and diligent in their information seeking about possible causes for employee performance to avoid making mistakes. For example, before initiating disciplinary actions resulting in severe consequences for the employee’s future, leaders should make sure that they have credible and reliable information regarding the causes for the employee’s poor performance. One
way to do so is to offer individualized consideration to all employees and to get to know their strengths, weaknesses, and potential personal constraints. For example, a leader may be more lenient with an employee who misses an important deadline when he is aware of the employee’s familial problems.

Leaders should also attempt to identify what employees regard as causes for their performance. To ensure open and honest two-way communication, it is critical for leaders to establish a trusting relationship with their employees. Only then will employees feel comfortable sharing their own thoughts and concerns. Ideally, leaders and employees discuss critical events openly together to boost the potential for a common attribution to occur and to maximize employees’ buy-in into any corrective actions (e.g., enrollment in skills training, task redesign, job transfer).

Marion B. Eberly and Terence R. Mitchell

See also Causal Attribution Theory; Job Characteristics Theory; Leader–Member Exchange Theory; Managerial Decision Biases

Further Readings


**AUTHENTIC LEADERSHIP**

Authentic leadership refers to genuine form leadership through which leaders remain true to their personal values and convictions, display consistency between their words and deeds, and thereby garner high levels of trust and elevated performance from followers. Authentic leadership can be more formally defined as a constellation of leader behaviors that draw upon and promote a positive ethical climate, positive psychological resources, and positive leader and follower development through heightened levels of self-awareness, balanced information processing, relational transparency, and an internalized moral perspective. Importantly, it serves as a “root” construct for other positive forms of leadership, such as transformational, spiritual, servant, and ethical leadership. That is, all of these forms of leadership are enhanced when the leader is genuine with others and true to himself or herself. Given the many favorable leader, follower, and organizational outcomes that are predicted to arise from authentic leadership, it is of special interest to managers seeking to create more supportive and productive work environments. In the sections that follow, the theoretical foundations and components, key research findings, and practical implications of authentic leadership are described.

**Fundamentals**

Recent interest in authentic leadership has been stimulated by the writings of former Medtronic CEO Bill George, whose books, *Authentic Leadership* and *True North*, have struck a chord with management practitioners and scholars alike. Drawing on his experience as a leader and witness to great leaders, George describes authentic leaders as persons who not only draw upon their natural abilities but also recognize their weaknesses and work hard to surmount them. Such individuals lead with purpose, values, and meaning. They establish enduring relationships with others, and people follow them because they know what to expect. Such leaders are self-disciplined and consistent. They refuse to compromise when their core principles are challenged, displaying the moral courage to stand by their convictions. Finally, they are dedicated to personal development and to working with others to help them achieve personal and professional growth.

Authentic leadership is founded on the underlying construct of authenticity, which is expressed well by the instruction of the ancient Greeks to “know thyself” and Shakespeare’s admonition, “to thine own self be true.” Modern conceptions
of authenticity owe a great deal to the works of existentialist philosophers, such as Jean-Paul Sartre and Martin Heidegger. Psychology has also contributed to the modern conception of the self as a multifaceted knowledge structure, under which people organize information about their personal histories, backgrounds, values, relationships, roles, and identities. Different situations elicit different facets of the self, such that people are driven by a “working self-concept” that guides their behavior in the situation at hand. Thus, a leader’s efforts to remain true to the self will depend on the particular self that circumstances invoke. Leaders with complex jobs may be required to assume many different roles, as they move from situation to situation and stakeholder to stakeholder. Despite such diverse demands, they can remain authentic by staying true to the self that is invoked by the role and a set of core underlying values, such as honesty, transparency, trustworthiness, and respect for others, that transcend situational requirements.

While diverse views on authentic leadership have been proposed by management scholars, the literature has coalesced around a four-component perspective advanced by Bruce Avolio, William Gardner, Fred Luthans, Fred Walumbwa, Doug May, and their colleagues. The four components are self-awareness, balanced processing, relational transparency, and an internalized moral perspective.

- **Self-awareness** involves the degree to which a leader is aware of, and owns, his or her thoughts, values, identities, motives, emotions, goals, knowledge, and talents, as well as personal strengths and weaknesses. Self-awareness serves as the foundation for authentic leadership because, without knowledge of one’s self, it is impossible to be true to that self.

- **Balanced processing** refers to the degree to which a leader processes positive along with negative and potentially ego-threatening information about the self in a balanced fashion without becoming defensive. That is, the leader seeks accurate feedback about the self to promote self-awareness, while soliciting impartial perspectives on key issues for the purpose of making informed and impartial decisions.

- **Relational transparency** involves the degree to which a leader is open and forthcoming in close relationships. The leader displays a willingness to disclose personal and potentially sensitive information to close others that may make him or her vulnerable and, thereby, provides the foundation for reciprocal and trusting relationships. That is, the leader presents a genuine as opposed to a “fake” self to others through selective self-disclosure thereby creating bonds of trust and intimacy, while encouraging others to do the same.

- **An internalized moral perspective** refers to an awareness of the ethical components of the leader’s decisions and a commitment to behave in a fashion that reflects his or her moral values and beliefs. Thus, the leader’s moral conduct is grounded in an internal moral compass that guides ethical choices and provides a commitment to do what he or she deems is right.

The above description of authentic leadership and its components suggests a highly idealized conception of leadership. In reality, however, it is important to recognize that authenticity, and hence authentic leadership, exists on a continuum. That is, no one is completely authentic across all situations and time. Indeed, given the complexity of modern life and the many roles that leaders play, it is unrealistic to assume that they will always be true to themselves regardless of their mood or circumstances. Instead, it is more appropriate to talk about more versus less authentic leaders and situations where leaders are more versus less authentic. In addition, because authenticity is an aspirational goal, people in general and leaders in particular can strive to become more authentic as part of a quest for personal and professional growth.

Authentic leadership does not operate in a vacuum, as the interrelationships with followers and the culture play a key role in establishing authentic leader-follower relationships. Indeed, from the outset, authentic leadership scholars have proposed that the authenticity of followers, which they call authentic followership, is an essential element of the process of authentic leadership. Through positive modeling, positive social exchanges, identification with the leader, emotional contagion processes, and support for self-determination, authentic leaders are seen as fostering authenticity in followers. In addition, followers who exhibit authentic conduct can serve as positive role models for their peers and
superiors, thereby contributing to the authentic leadership and authentic followership of others. Finally, a positive ethical climate is assumed to create an atmosphere where self-awareness, transparency, balanced processing, and strong moral principles and conduct are valued and rewarded. Hence, a positive ethical climate can interact with authentic leadership and followership in a reciprocal fashion, such that authentic leaders and followers help to establish and maintain a positive ethical climate, and vice versa.

A major focus of authentic leadership theory has been directed toward the development of authentic leaders and followers. Trigger events, or “moments that matter,” can serve to enhance the self-awareness of leaders and hence play a key role in the development of authentic leadership. Surprising feedback from others, a major life event, or a perceived success or failure may serve as triggers that cause one to engage in self-reflection. While such triggers may arise as a natural part of life, researchers have identified a number of practices whereby developmental triggers can be induced through self-reflection and formal training exercises. Developmental readiness, which involves one's sensitivity, capacity, and motivational receptivity to growth opportunities found in the environment, further adds to one's propensity for development as an authentic leader.

Positive psychological resources, including confidence, optimism, hope, and resilience, are posited to contribute to the development of authentic leadership, which in turn, operates to replenish these resources. Confidence involves the self-efficacy needed to take on challenging tasks and put forth the effort necessary to succeed. Optimism refers to having positive expectations for both present and future success. Resilience involves an ability of people to bounce back from problems and adversity to achieve success. Hope refers to a positive motivational state whereby one has the willpower to pursue success and the knowledge of pathways for achieving it. Importantly, these resources represent flexible psychological states as opposed to enduring traits. This means they are subject to change and hence open to development.

**Importance**

Through an extensive research program, Fred Luthans and colleagues have shown that these resources, which they call psychological capital, or PsyCap, combine to have a synergistic effect on performance. Further, they have demonstrated that training and other developmental interventions can be applied to enhance PsyCap and thereby produce positive gains in job satisfaction, organizational commitment, organizational citizenship behaviors, and individual and organizational performance. Finally, they have confirmed their expectation that authentic leadership and PsyCap are positively and reciprocally related, suggesting yet another avenue for authentic leadership development.

The most extensively used measure of authentic leadership is the Authentic Leadership Questionnaire (ALQ), although the Authentic Leadership Inventory (ALI) was recently introduced as an alternative. The ALQ provides an overall measure of authentic leadership, along with the four components described above, whereas the ALI focuses on the separate components. Although only limited assessments of these measures’ psychometric properties are available due to their relatively recent introduction to the field, the preliminary evidence is supportive.

Empirical research indicates that authentic leadership is positively associated with ethical and transformational leadership, leader and follower psychological capital and well-being, follower identification with and trust in the leader, job satisfaction, organizational commitment, work engagement, empowerment, organizational citizenship behavior, employee job performance, and firm financial performance. Overall, this evidence suggests that authentic leadership possesses considerable promise for organizations seeking to foster positive work climates, enhance employee well-being, and elevate individual, group, and firm performance.

A key implication for management practice is that leaders who are true to themselves, show consistency between their words and deeds, and demonstrate moral character and fortitude can simultaneously promote enhanced levels of leader and follower well-being and veritable and sustained performance. Therein lies the cause for much of the excitement about the construct. Rather than forcing people to pursue a “one style fits all” approach to leadership, aspiring leaders are encouraged to look within themselves to find a style of leadership that personally resonates with them and reflects their true self. The opportunity to lead in an authentic
fashion is available to all current and prospective leaders, with potential benefits to be accrued by the leader, followers, their organizations, and society at large.

William L. Gardner

See also Charismatic Theory of Leadership; Leader–Member Exchange Theory; Self-Concept and the Theory of Self; Self-Determination Theory; Servant Leadership; Theory of Self-Esteem; Transformational Theory of Leadership

Further Readings


BAD THEORIES

This entry refers to the corpus of alleged bad management theories at the heart of business school curricula that legitimize and promote amoral behavior, corporate misconduct, and many of the Enron-like debacles of the early millennium. According to Sumantra Ghoshal, bad theories may in fact be destroying good management practices. This phenomenon is the by-product of the long-standing shift within management research toward a scientific model of investigation, a shift that has produced two unique and stultifying outcomes in the field of management. First, there is the pretense of knowledge, which removes human intentionality from management research and thus eliminates moral and ethical considerations from management theories. Second, a pessimistic ideology, referred to as gloomy vision, permeates theoretical development—a fact that culminates in a biased research lens that focuses on curing negative problems and correcting flaws rather than producing positive outcomes. These two characteristics saturate both management research and business school education and lead to a significant level of claims of truth that are biased and un- or undersupported. Furthermore, the negative assumptions and pretense of knowledge are self-fulfilling, because given their widespread inculcation and resultant beliefs, bad theories are accepted and integrated into management practice even in the face of significant contradictory evidence and available alternative theories. In this entry, the fundamental components of bad theories are provided along with a discussion of relevant examples and their detrimental effects on business practices. The entry also provides some proposed remedies for bad theories and discusses the implications of such theories for management practitioners.

Fundamentals

Ghoshal’s claim regarding bad management theories may best be understood as a response to Milton Friedman’s notion of liberalism, which the University of Chicago has espoused and integrated into a broad array of disciplines (e.g., law, economics, and sociology), including management. Here, liberalism refers to an ideology that is not only laden with pessimistic assumptions about human behavior but also excludes ethical problem solving from social theory. This ideology has extended its grasp on most management-related academic disciplines, and in doing so, it has tainted management research, pedagogy, and practice with negative assumptions that ultimately prove self-fulfilling.

These assumptions prove self-fulfilling because they have been woven into a pretense of knowledge—an accepted mode of investigation and analysis that takes the posture of a scientific model but that ultimately provides only excessive claims of truth. When such assumptions are implemented without question into a model that purports to produce scientific conclusions, the ideology underlying those assumptions is perpetuated as accepted fact. Ghoshal recognizes this problem as a double hermeneutic, wherein management practitioners who adopt negative predispositions of liberalism ultimately enact policies
and treat their employees in ways that prove their assumptions true. By adopting a particular outlook on the nature of the organizational environment or employee behavior, managers necessarily act in a way that communicates that outlook to the organization. As but one example, while transaction cost economics encourages the vigilant oversight of employees to reduce their opportunistic behavior, the very implementation of rigorous monitoring and oversight regimens has been shown to encourage the opportunistic behavior it aims to stem. The manner in which the pretense of knowledge and negative ideology yield negative management practices may best be explained in Figure 1.

Importantly, the proliferation of bad management practices also originates from a growing imbalance in scholarship within the field of management. Drawing on Ernest L. Boyer’s work on scholarship, Ghoshal notes that while the four distinct approaches of research, synthesis, practice, and pedagogy were once equally regarded, the past 30 years have witnessed a stark shift in focus toward research at the expense of the other three. This focus marked an end of generalists in the field of social sciences such as management and elevated research to a unique level of exclusivity among scholarly pursuits. This heightened status enhances the truth claims that emerge from management research and further entrenches the ideologically based assumptions on which such claims are based.

Another critical problem in the scholarship of management is its chosen mode of explanation compared with other sciences. While natural sciences may rightly rely on causal and functional explanatory models in their analyses, social sciences such as management should rely on an intentional explanatory model. An intentional explanatory model focuses on individual, purposeful actions as the core unit of analysis because it recognizes the willful behavior of the actor as a primary element of study. This stands in contrast to physics, which may use causal explanatory models of inorganic matter, and biology, which may use functional explanations of organic matter, but that do not recognize intentionality among the objects of study. However, despite the appropriateness of the intentional explanatory model

![Image of Figure 1](image-url)

**Figure 1** The Process of Bad Theories Destroying Good Practice

model for social sciences, management theories routinely incorporate causal and functional modes of explanation. Thus, the human intentions and mental phenomena that lay at the heart of study of management are by and large not included in the theories espoused in the study of management.

In short, academics in the field of business have worked so hard to gain legitimacy for their work on par with the physical sciences that they have over-shot their mark. The result is an imbalanced scholarly group of academics who focus the wrong lens on their subjects.

Consequences of Bad Theory

There are many victims of the unfortunate cycle described by Ghoshal. Morality, for one, gets compromised when managers surrender to external forces of the market and competition rather than abiding by their ethics. The near reification of Friedman’s maxim that manager’s only social responsibility is to maximize shareholder value, for instance, may serve to justify a manager’s shirking of his duty to other stakeholders such as employees, the community, or the environment. Common sense also suffers from the promulgation of bad management theories. Managers may well realize that employees contribute more to their company (in terms of ideas, relationships, and reputation) and are more difficult to replace than common shareholders, but they unflinchingly prioritize the value of shareholder contribution and value above employees. This prioritization may culminate in a broad array of management decisions that result in grave consequences for company personnel in return for marginal and fleeting enhancements in shareholder value.

Despite the impact of bad theory on managers’ morality and common sense, such theories persist even in light of countervailing evidence. Ghoshal notes that agency theory, which is widely used to support the relationship between shareholder (principals) and managers (agents), would predict the expansion of boards of directors to police managers and the division of roles among chief officers to dilute power, all in the name of increasing performance. Yet studies widely show no support for the impact of such actions on performance, and agency theory still continues to be promoted without question. This continued support for entrenched theories despite a long-standing lack of support (or in some cases, evidence to contrary) reflects the power and pervasiveness of theories widely accepted by business practitioners.

The Cure for Bad Theories

The prescribed remedy for this grand problem is nothing short of a complete overhaul of the focus and practice of business school education. Perhaps the most controversial claim of this theory is that, as the main expositors of bad theories, academics are largely to blame for this self-perpetuating cycle. As such, any meaningful cure must entail a primordial reconsideration and revision of our concept of corporate governance—perhaps examining and applying theories such as stewardship theory with the same rigor and review as agency theory. In this view, a piecemeal or incremental approach to changing business school curricula will not suffice because the strong biases are so firmly entrenched. The primary targets of curriculum overhaul recommended by Ghoshal would include a fundamental review and analysis of those theories on which academics in the field of management most rely.

Another key to reversing this long-standing trend involves regaining a balance in the ideology and assumptions that underlie management research by incorporating positive psychology in the discourse. Positive psychology recognizes the complexity of human beings and organizations but generally calls for a focus on the strengths as well as weaknesses that exist amid such complexity. Invoking positive psychology as the undercurrent of research may counteract the gloomy vision that has held sway for the past several decades.

Implementing these content-related changes to academia would require fundamental changes in the way in which business schools are run. The methods for training PhD students as well as the publication requirements for tenure would have to be reconsidered. The senior leadership at business schools may have to take the lead in forging a new commitment to alternative paths of research—an endeavor that my raise the ire of academics within their own institution and beyond. In addition, peer-reviewed academic journals would have to reexamine their criteria for publication in order to adapt to new and as-of-yet unexamined assumptions and ideologies, as well as a broader, more generalized spectrum of academic contributions.
Importance

Although published relatively recently, Ghoshal's position on bad theories has already had an influence in the literature. Upon its posthumous publication, a number of respected academics, including Lex Donaldson, Jeffrey Pfeffer, Rosabeth Moss Kanter, and Donald Hambrick, among others, all published laudatory responses. The field largely welcomed the pronouncement that bad theories may in fact be encouraging bad management practice, as well as unnecessarily narrowing the focus of business research. However, a number of scholars challenged the assertion that business schools could play such a large role in corporate mismanagement scandals. These scholars agree with Ghoshal's central claims about the central flaws in business school education and with management theories in general, yet they demur on the grounds that academics do not actually wield such power in the practice of management. In short, some feel that Ghoshal's prognosis is correct but business schools are not the sole cause of this malaise simply because they do not have the power to evoke such an outcome. Ultimately, a consensus appears to agree with Ghoshal's call for action—that action being a fundamental review and revamping of the business academic model.

Further response from the academic community may be found in the small but increasing number of conferences and meetings dedicated to the development of positive psychology within business research. Ultimately, Ghoshal called on leading academic journals such as the *Academy of Management Journal* to commit to a new scholarly agenda. And while this may not yet have been formally realized, the issue of the *Academy of Management Learning and Education* in which Ghoshal’s work was published and accompanied by numerous responses may serve as an opening salvo in the effort to enact change in accordance with Ghoshal’s vision.

Although Ghoshal suggests that both the causes of and cures for bad theories reside primarily within business schools, his theory affects modern managers as well. It is perhaps beyond question that successful business managers must frequently reassess and revise their business models and strategies to remain competitive, but Ghoshal’s work suggests they should likewise reassess the basic theories underlying their decision making and corporate governance. Such reevaluation may free modern managers from the firmly entrenched theories that have promoted detrimental behavior in their workplace, as well as open their minds to new conceptions of stakeholder value. Devoting attention to the identification and remediation of the adherence to bad theories may provide modern managers with new tools to deter amoral behavior and business misconduct.

*J. Mark Phillips, Kevin May, and James Bailey*

**Further Readings**


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**Balanced Scorecard**

The balanced scorecard (BSC) was developed by Robert S. Kaplan, professor at Harvard Business School, and David Norton in the early 1990s. In
its early versions, it was a strategic performance measurement system that balanced financial and nonfinancial measures and short run against long run. The system was designed to create visibility of the drivers of value creation in a business rather than just focus on financial outcomes. This was in a context where resources such as people and intellectual assets were becoming more valuable than physical assets in many organizations. There were four dimensions to the original scorecard—Financial, Customer, Internal Business Processes, and Learning and Growth. From its early beginnings in 1992, it has evolved into a tool for strategy execution process. The balanced scorecard intersects with a range of fields in business—innovation, information systems, leadership, marketing and customer value creation, strategy, and learning. The strategy map has become central to the scorecard. This is a schematic of the value creation process integrating the key processes and capital of the organization, especially intellectual capital, in a cause-and-effect relationship. The following section, Fundamentals, explains the development of the balanced scorecard since its inception and the major features of a contemporary balanced scorecard. The Importance section explains the advantages and issues in the use of the scorecard.

Fundamentals

The balanced scorecard is predicated on the notion that performance measures are a powerful influence on members of an organization, particularly if there is a connection with rewards, whether intrinsic or extrinsic. The first mention of the balanced scorecard is in a footnote to a 1989 Harvard case, Analog Devices, written about a company that had developed a “Blue Book” with a range of financial and nonfinancial measures. Early scorecards were a collection of measures that balanced financial against nonfinancial and leading indicators that led future performance against lagging indicators. It was a reaction to the relentless pressure by financial markets for ever-increasing returns and the focus on the factors that would affect ongoing profitability, such as customer satisfaction and improved internal processes. There was a recognized connection between the four dimensions of the scorecard, which are as follows:

- **Financial**—The outcome for all profit-making organizations is a financial result for stockholders measured by a range of metrics such as return on capital or net profit margin or growth in revenues.
- **Customer**—In most cases, it is a positive response from the customer that creates value for the organization by profitable sales. The metrics may include sales penetration as well as the level of customer satisfaction and loyalty.
- **Internal Business Processes**—To increase the quality of the customer relationship, operating processes will be continually improved to enhance the quality flexibility while reducing cost of these processes. Measurements may include cycle time, asset utilization, and quality metrics.
- **Learning and Growth**—The driving force of value creation is through the intellectual capital, the ideas, and innovation that bring about new products and services as well as processes, sometimes with rapid discontinuous innovation. It can be measured by the development of human capability, new products to market, and growth of strategic alliances.

For each dimension, the organization identified the key strategic objectives, then the measures that would determine whether the objective had been achieved. For each measure, targets were set and initiatives planned to reach the objectives. The organization needed to clarify its vision and make this the center of the balanced scorecard. The most difficult part of the scorecard was the learning and growth dimension. Implementers of the BSC found great difficulty in this dimension of the scorecard because the areas of intellectual capital and innovation are at the heart of future competitive advantage, yet the drivers are the most difficult to identify.

While some organizations found that the four dimensions worked well for them, others introduced different dimensions. Various fifth dimensions developed, including a social and environmental dimension.

As the BSC spread into the nonprofit sector and government, the financial perspective was no longer the primary goal of the organization and the mission needed to be put as the final outcome. This can be seen in cases developed by Robert Kaplan and David Norton such as Boston Lyric Opera. Nevertheless, there are particular issues in implementing in the nonprofit and public sector because of the significant political context and institutional pressures. Implementing a BSC from the center of a large public sector organization may create significant tensions.
at the local level where local needs may conflict with the metrics in the BSC.

The BSC has evolved over time, with a series of books whose titles include phrases such as “The Strategy-Focused Organization,” “Alignment,” and “Strategy Execution Premium.” One of the important developments was the explanation of strategy maps, the maps that reflect cause-effect relationships. While these relationships might change over time, it is considered useful for managers to understand the link between drivers of performance. The strategy map becomes a “working hypothesis” of how the organization creates value for its critical stakeholders. Usually the map is driven upward from learning and growth that drove improved business processes, which increased customer satisfaction and led to improved financial results.

Another development of the BSC led to the idea of cascading down the organization. This was the process of linking all departments, and perhaps all employees, to the corporate scorecard so that all sections of the organization would be focusing on strategy and contributing toward it. Individual employee could have their own personal scorecard that reflected their contribution toward the ultimate organizational strategy. This was the key principle in Robert Kaplan and David Norton’s 2001 book *The Strategy-Focused Organization*.

Following on from this was the idea of alignment. It was argued that through the use of the scorecard, all parts of the organizations could be aligned around strategic goals. The BSC would be an organizing form that would enable the development of a cohesive strategy that would be communicated to all sections of the organization and achievement of the goals fed back throughout the organization. Although the BSC seems to be built on the planning school of strategy, there is a degree of “emergent” strategy allowed for, as employees would be looking for new opportunities to expand the strategy.

Robert Kaplan and David Norton have now expanded their model to include the BSC as a central part of the strategy execution process—hence, their 2008 book *The Execution Premium*.

### Importance

The BSC has become pervasive; it has had an enormous impact on practice and research. After 1992, the idea diffused into larger organizations and was perceived as an important part of corporate governance processes. Now even small nonprofits have a balanced scorecard, at least at a whole of organization level. Although the idea originated in the United States, there are now case studies and surveys of BSC applications into Europe and across Asia. In Europe, there are surveys showing use in Germany and diffusion into Scandinavia. The French have historically used the *tableau de bord,* which has been discussed as both similar in its concept of a balanced structure of measurement and yet distinguished from the BSC.

There is increasing evidence of applications of the BSC into Asia, including Taiwan and Singapore, and by 2010 there were over 100 cases of implementations in Chinese hospitals, as just one sector in the Chinese economy.

While the early writings were mainly about the for-profit sector, the BSC is now found in most types of organizations. There are now many books outlining how the BSC might be used in government and nonprofits; Kaplan and Norton have demonstrated how the application may vary with financial outcomes being replaced by mission as the final outcome.

The BSC has generated significant research interest from academics and a thriving debate among practitioners. Since there are alternatives to the BSC, Robert Chenhall came up with the label “strategic performance measurement systems” to encompass all the systems designed to translate strategy into metrics and link operations to the corporate vision.

The research evidence has provided mixed evidence about the effectiveness of the use of BSC. As with most management systems, poor results are often blamed on poor implementations. Rather than focusing on implementation problems, its detractors would argue that it is difficult to implement and does not produce the anticipated benefits, that it is more constraining than enabling and will reduce rather than enhance creativity and innovation.

While the drivers of financial performance are of significant concern to all organizations, the financial outcomes usually dominate the corporate agenda. Even in the presence of the BSC there appears to remain considerable concern at a board level of the short-run financial performance. Indeed, some researchers suggest that the BSC is a shabby substitute for financial performance.

Andre de Waal is one writer who has criticized the BSC as being oversold with a lack of
empirical research to demonstrate that it will produce increased performance. Ken Merchant, a well-known writer in management control systems, expressed his belief that statements that the BSC is suitable and beneficial in every organization are unhelpful, nor is there sufficient research to support such claims. Even in cases where there is a correlation between BSC use and high performance, it may indeed be that high-performing organizations use the BSC as a means of drawing together key performance issues rather than the BSC being the driver of that performance.

Others have argued that the BSC, with its four perspectives, has been used as a measurement “straitjacket,” which might indeed harm firms by constraining the level of innovation and creativity. Kaplan and Norton have always argued that the scorecard should be seen as a basic structure with plenty of flexibility and that metrics in the innovation area should promote rather than constrain.

There has been specific criticism of the central principle, the cause-and-effect relationship. This is seen as a difficult process. Studies in Austria, Germany, Malaysia, and the United States have shown that more than three fourths of implementers failed to develop these relationships. Claiming causal relationships between perspectives has been seen as quite problematic. These links may be tentative hypotheses, which rapidly change. The time lag is also uncertain; a link between customers and financial outcomes is not unexpected, but the time lags over which this occurs are not really known. The links have been seen as logical rather than causal.

The BSC is designed to encourage external engagement and focus on opportunities as they arise. Kaplan and Norton’s description of how Mobil workers might see potential distribution sites is an example. For all this, researchers have suggested that in practice there may be insufficient resources to keep the scorecard dynamic, in which case the scorecard becomes too internally focused, static, and not sufficiently focused on the external environment. Rather than supporting strategy implementation, some researchers have found that in practice, managers struggle to find mechanisms to assist staff to think through responses to the external environment.

Researchers have noted the substantial growth of the intellectual capital literature and compared this with the learning-and-growth perspective of the BSC—often perceived as its weakest aspect. There is a growing literature on intellectual capital and intangible assets, and the nature and formation of these assets is far more complex than the BSC literature might suggest.

The BSC is a management methodology that appears to be here to stay. Many organizations find it a helpful approach to coordinate the development of strategy, its execution, and monitoring of progress and are using it at a board level or a whole-of-organization level. Detailed scorecards cascading down the organization to the departmental and individual levels are less common. Whether organizations will see the BSC as a central tool in strategy execution is not yet clear.

Bruce Gurd

See also Goal-Setting Theory; Learning Organization; Management Control Systems; Modes of Strategy: Planned and Emergent; Strategic Decision Making

Further Readings


BCG Growth-Share Matrix

In the late 1960s, Bruce Henderson, founder of the Boston Consulting Group in Boston, Massachusetts, unveiled an innovative four-cell matrix that would have profound implications for the way corporations manage their business units and product lines. This matrix was created to assist corporations to assess the competitive position of their business units and product lines in relation to their market share and growth; it presents a composite view of the competitive position of each business unit or product line within a corporation. Additionally, it provides senior management with a framework to assess the relative position of each business unit and product line in order to determine how to allocate or reallocate resources. To use the matrix, corporations must assess their business units and product lines—in essence, their business portfolios. Dominating the business world for two decades, the matrix made a significant contribution to strategic planning and continues to be used in Fortune 500 companies today. What became famous as the “Boston Consulting Group (BCG) Growth-Share Matrix” dominated market analysis in the 1970s and 1980s, recasting senior managers as internal bankers, reframing product lines and business units as investments, and naming the product lines or business units themselves “stars,” “cash cows,” “question marks,” and “dogs,” depending on their return of the corporation’s initial investment. When these cleverly named entities were properly balanced within a company’s portfolio, the theory goes, a maximum return on investment was not only achievable, it was an inevitable outcome. The BCG Growth-Share Matrix provided a snapshot of the product line’s or business unit’s current competitive position but also the analytical framework to predict where they would go. This entry introduces the Boston Consulting Group Growth-Share Matrix and the classic stars, cash cows, dogs, and question marks, along with general conclusions about its current use and some criticisms. Beginning with a historical overview of its development by Bruce Henderson, this entry examines the matrix and its implications for management.

Fundamentals

The BCG Growth-Share matrix was initially developed when Mead Paper Corporation hired the Boston Consulting Group to develop an acquisition strategy. At that time, Mead Paper had six product groups and 45 operating divisions but lacked a strategy for managing the business units and a method to determine which business units or product lines were losing money. Other major U.S. companies at the time, such as General Electric (GE), were also seeking new tools and methods for strategic planning. GE’s approach, however, was focused on strategic planning concepts, techniques, and definitions. As a result, their focus helped them define specific product markets, and they coined the term strategic business unit (SBU). Prior to the portfolio-planning matrix approach, a corporation’s strategy generally used capital budgeting to evaluate its returns on investments. Capital budgeting is a method first applied in corporate finance in 1951 to determine whether a corporation’s long-term investments are worth pursuing.

At the heart of the BCG Growth-Share Matrix is the notion that a company should have a mixture of product lines and business units with different growth rates and market shares. The right combination of high- and low-growth products will balance cash flows in the company’s portfolio and, in so doing, ensure the company’s success. The matrix itself allows managers to compare the product lines and business units already in their company’s portfolio based on the market growth rate and market share. It also provides a framework to allocate resources between the different product lines and business units.

An underlying premise of the BCG Growth-Share Matrix is that the larger a product’s market share—or the more rapidly the product’s market increases—the more it benefits the company. In the context of the BCG Growth-Share Matrix, four rules influence a product’s cash flow: (1) Market share determines margins and cash generated, (2) growth requires additional resources to obtain more assets, (3) market share is earned or bought, and (4) the growth of a product line cannot continue indefinitely. One of the basic assumptions in the BCG Growth-Share Matrix is that a growing market is attractive.

In the BCG Growth-Share Matrix, a corporation’s products or business units are plotted in one of four quadrants according to the growth rate of the industry in which it competes and its relative market share. The business growth rate is based on the percentage of the sales of a business unit’s product that have increased—in other words, market growth. On
the matrix, the vertical (y) axis depicts the growth rate for the next 5 years in percentages of the market on a linear scale. A corporation’s business unit or product line is plotted along the horizontal (x) axis, which represents the market share divided by its largest competitor. For example, if Company A has 15% of the market share and its largest competitor, Company B, has 40% of the market share, then the market share of Company A relative to the market share of Company B is 37%, or .37x. In another example, if Company A has 40% of the market share and Company B has 15% market share, the market share of Company A is 266%, or 2.66x. Using this formula, market share of 1.0 or greater indicates the market leader. A “dog” on the other hand is a product line or business unit that has a relative competitive position less than 1.0.

A company’s business unit or product line is represented by a circle, the size of which signifies the relative importance of each business unit or product line to the corporation as it relates to assets used or sales generated. Once the company’s business units or product lines have been plotted on the BCG Growth-Share Matrix, four categories of business units or product lines may emerge within the corporation’s portfolio: (1) stars, (2) cash cows, (3) question marks, and (4) dogs. In the upper left quadrant of the matrix are stars, which are business units or product lines typically at the peak of their life cycle and that have high growth and high market share. They generally are market leaders that require large amounts of cash to maintain their competitive position, but as market leaders, they should generate large amounts of cash. Stars should be given additional resources if necessary to defend their current market share, as they will eventually become cash cows as long as their market share is maintained. In the lower left quadrant are cash cows, which are low-growth, high-market-share products that are the foundation of the corporation’s portfolio. Cash cows should generate far more cash than is required to maintain their market share. This results in low-growth markets where further investment is not needed. These products should be “milked” for cash as their product life cycle declines, and the company should invest those profits into question marks. In the upper right quadrant are question marks (also called “problem children” and “wildcats”), which are high-growth and low-market-share products. Question mark products are highly risky and require substantial amounts of money for development in hopes that they will eventually gain enough market share to become a star. When companies cannot increase market shares for question marks and future growth is stopped, these products will eventually become dogs. In the lower-right quadrant are dogs, which are low-growth and low-market-share products. Dogs often lack potential because they are in an unattractive industry. Management should reduce the number of dogs within the company’s portfolio by selling them off and carefully managing those that remain. A company's senior management can use these projections of market growth and market share to maintain a balanced portfolio. The company's strategic goal is to have a portfolio that is balanced so that it always has cash, always milking its mature products, and always seeking to develop new products and markets.

**Importance**

In the 1970s, many U.S. companies faced daunting challenges because of the oil crisis, inflation, and increased global competition that fueled a financial recession. Because of this economic crisis, many businesses were seeking ways to save money and methods to allocate the limited resources on hand. Additionally, many companies were growing more diverse and increasing in size and were confronted with the challenges of managing diverse products across diverse industries. Faced with these challenges, senior managers sought a way to coordinate the activities of their business units and product lines as previous methods appeared no longer to work. The BCG Growth-Share Matrix offered companies an analytical tool to allocate resources between the different product lines and business units to develop strategies to chart this new territory.

The BCG Growth-Share Matrix is not without its detractors. The main criticisms are its (1) narrow focus, (2) basic assumptions, (3) definitions, (4) political process and implementation of subsequent strategies, and (5) operationalization of the strategic statements. The simplicity of the BCG Growth-Share Matrix and its narrow focus has been taken to task as a weakness. Some argue that four cells are too few to represent competitive positioning or market attractiveness. Others argue that the industry’s attractiveness is based exclusively on growth rate, which may overemphasize the importance of market share and market leadership. This emphasis may be problematic given that the link between market share and profitability is not necessarily strong.
In addition, its principal assumption—that market share is always desirable—has been criticized. Some critics note that in certain cases, such as stable and predictable niche markets, a product with a low market share in a declining industry can, in fact, be quite profitable. Alternatively, companies may choose to keep dogs since that product line may act as a barrier to competitors. The BCG Growth-Share Matrix has also been criticized for the definitions used, which may contribute to the difficulties already faced by companies to identify product lines and relevant market share correctly. Further, the BCG Growth-Share Matrix has been criticized for the difficulty in operationalizing its terminology, such as harvest and milk. Despite these criticisms, one of the main strengths of the BCG Growth-Share Matrix is that it provides senior management a simple analytical tool, based on a single parameter, market share, as the primary indicator of the company’s business unit or product line’s competitive position.

Although portfolio analysis has waned in popularity since its peak in the 1970s and 1980s—no fewer than five variants of the portfolio-planning matrix were in wide use by major corporations by 1981—the overall influence of the BCG Growth-Share Matrix is significant. More than 40 years after its premiere, it continues to be widely used by Fortune 500 firms to develop strategies to manage cash flow and is regularly taught in business schools across the country. The model’s graphic illustration of a given company’s financial challenges and opportunities, its relative ease of use, and its straightforward ability to assist corporations to decide easily how to allocate resources ensures its long-term viability.

James V. M. L. Holzer

See also Balanced Scorecard; Competitive Advantage; Strategic Profiles; SWOT Analysis Framework; Value Chain

Further Readings


BEHAVIORAL PERSPECTIVE OF STRATEGIC HUMAN RESOURCE MANAGEMENT

The behavioral perspective of human resource management (HRM) is one of several alternative theoretical lenses for understanding why firms differ in their approaches to managing employees, and a broad array of consequences that follow from differing approaches to managing employees. The theory’s central management insight is that HRM systems are most effective when they are designed to support strategic business objectives. This approach was a departure from previous work that sought to identify the “one best way” to manage employees. The behavioral perspective of strategic HRM asserts that designing effective HRM policies and practices requires understanding the behavioral imperatives of the business objectives and then developing an HRM system to encourage, elicit, and sustain the required behaviors. The behavioral perspective of strategic HRM has been used most frequently in studies of strategic HRM and has been applied primarily for describing and prescribing the links between
business strategies, HMR systems, and a variety of stakeholder responses closely associated with employee behaviors. While not generally considered to be a formal theory, the behavioral perspective of HRM provides a framework for understanding how employees contribute to organizational effectiveness. This entry begins with a description of seven defining assertions of the behavioral perspective of strategic HRM. Next, it describes the theoretical roots of the behavioral perspective and its relationship to other recent theoretical approaches driving recent work in the area of strategic HRM. Finally, the entry concludes with a short summary of important contributions that the behavioral perspective of strategic HRM has made to advances in general management scholarship.

Fundamentals
Grounded in role theory, the behavioral perspective of strategic HRM was first articulated by Randall S. Schuler and Susan E. Jackson as a framework for articulating how differences in business strategies might influence the ways employees are managed. Subsequently, the behavioral perspective of strategic HRM has been developed as a framework for analyzing how management policies and practices should be designed to maximize organizational effectiveness, given an organization’s specific and unique environmental context and internal organizational conditions. Figure 1 provides a simple schematic illustration of the key concepts of the behavioral perspective and their interrelationships.

Focus Is on Desired Employee Behaviors
As defined by Daniel Katz and Robert Kahn, the term role behaviors refers to the recurring actions of organizational members as they interact with their role partners to achieve predictable outcomes. Thus, role behaviors refer to a broad array of employee actions, including those required to perform specific

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**Figure 1** Overview of the Behavioral Perspective

*Source: Susan E. Jackson. Copyright © 2012 by Susan E. Jackson. Used with permission.*
tasks and jobs as well as behaviors not specified in one’s job description but are understood to contribute to the organization’s long-term success. As the behavioral perspective of HRM developed, the terminology has been shortened from employee role behaviors to simply employee behaviors.

**Different Organizations Need Different Employee Behaviors**

The behavioral perspective of HRM argues that different strategies require different role behaviors from employees for those strategies to be implemented successfully. Role behaviors believed to contribute to organizational effectiveness are referred to as “desired” (also referred to as “needed”) employee behaviors. Included among this broader set of desired behaviors are activities such as completing tasks that are officially the responsibility of another employee as needed, being adaptive and willing to learn and change as needed, and generally behaving in ways consistent with the organization’s stated goals and values. Thus, the behavioral perspective of HRM assumes that management policies and practices influence not only what work gets done in an organization but also how work gets done. The behavioral perspective also makes several other key assumptions, which are briefly described next. The following statement of assumptions also specifies the key concepts that compose the behavioral perspective.

**Organizational Effectiveness Improves When Employees Behave as Needed**

The behavioral perspective of HRM assumes that the behaviors of employees are one of the major determinants of organizational effectiveness, as judged by the organization’s primary stakeholders. Ultimately, stakeholders are an organization’s most important role partners; the consequences of employee behaviors are of primary concern to stakeholders. Ideally, employee behaviors are consistent with the long-term needs of the firm, given its competitive strategy and the expectations of others who depend on the employee—including role partners inside and outside the organization. The behavioral perspective recognizes that other factors (e.g., the actions of competitors, economic conditions, industry dynamics) also influence organizational effectiveness, but it focuses on employee behaviors because it is through behavior that organizational resources are transformed into goods and services that have economic value.

**Employee Behaviors Reflect Situational Influences**

According to the behavioral perspective of HRM, the desirability of specific behaviors is influenced by a variety of contextual factors inside and outside the organization. Internal contextual factors that influence the behaviors needed for organizational effectiveness are aspects of the particular organization itself—its size, life cycle stage, competitive strategy, technology, structure, and history. External contextual factors that influence the desirability of specific behaviors are conditions outside the organization that affect organizational functioning, including (a) industry dynamics, (b) institutional pressures, (c) economic and political conditions, (d) country cultures, and (e) the action of customers. The behavioral perspective assumes that a comprehensive consideration of these contextual elements is needed to fully determine which employee behaviors are desirable. Thus, determining the desired employee behaviors for a specific organization is the first essential step for effective human resource management.

**Management Policies and Practices Shape Employee Behaviors**

The behavioral perspective of HRM assumes that employee behaviors are malleable; that is, people are generally motivated to behave in ways that are socially approved of by others, so they are responsive to a variety of informational cues. Two sources of cues emphasized by the behavioral perspective are formal stated policies concerning how employees are to be treated and informal daily practices or the actual ways in which employees are treated. An organization’s formal policies and informal practices for managing employees function together as the HRM system. The many elements of an HRM system include policies and practices for recruiting, selecting, socializing, training, developing, supervising, evaluating, paying, recognizing, promoting, and terminating employees.

**Effective Policies and Practices Support Needed Employee Behaviors**

All of an organization’s many specific management policies and practices operate as a set of
interrelated forces that influence employee behaviors. An effective HRM system guides employee behaviors toward desired behaviors by providing opportunities for employees to engage in the behaviors needed, ensuring that employees have the competencies required to engage in those behaviors, and motivating employees to behave as needed. If one accepts the assumption that employees actively interpret and respond to managerial policies and practices, then it follows that an HRM system can direct employee behaviors in ways that increase the likelihood of long-term organizational effectiveness.

For employees to behave as needed, they must have the opportunities to do so. Structural arrangements, job designs, and technology are among the many factors that can create or block opportunities for employees to behave as needed. Given opportunities to behave as needed, employees can best meet the behavioral expectations of role partners if they have the required competencies—that is, the skills, knowledge, and abilities. HRM policies and practices can help ensure that employees have the required competencies by attracting highly competent job applicants, hiring those who are most highly qualified, providing training and on-the-job learning opportunities, and rewarding employees according to the competencies they exhibit. Three components comprising employee motivation are (a) willingness to join the firm and stay with the firm as needed, (b) willingness to exert significant effort toward achieving organizational goals (e.g., working harder, longer, and/or smarter), and (c) willingness to work reliably at the agreed time and place in exchange for an agreed compensation and under agreed working conditions. Policies and practices that influence motivation include the design of work, performance goals and incentives, feedback, and opportunities for advancement, among others.

Effective Organizations Address the Concerns of Multiple Stakeholders

Evaluations of organizational effectiveness must take into account the perspectives of the many stakeholders who are influenced by the actions of employees. Human resource management policies and practices are presumed to be effective when the expectations they communicate and the behaviors they elicit are congruent with the organization’s behavioral requirements and satisfy employees’ role partners. To achieve this goal, the HRM policies and practices affecting employees must send clear and consistent messages about the desired role behaviors. The primary stakeholders for most businesses include investors, customers, members of the organization itself (i.e., other employees), members of the broader community, and the organization’s strategic or alliance partners. Organizations are considered effective to the degree that they satisfy their primary stakeholders. Thus, to evaluate whether an organization’s management policies and practices are effective, the consequences of HRM policies and practices on each stakeholder group should be considered.

Evolution

The general model for understanding HRM that is now referred to as the behavioral perspective reflects the influences of several earlier views of organizations. At the same time, when it was first introduced, it represented a major departure from earlier work in the area of HRM and promoted a strategic approach to the study of HRM.

As already mentioned, the behavioral perspective draws most directly on the earlier writings of Daniel Katz and Robert Kahn. In addition, it incorporates Michael Porter’s approach to understanding the competitive strategies pursued by firms. The earliest description of the behavioral perspective, offered by Schuler and Jackson in 1987, used Michael Porter’s description of competitive strategies as the basis for arguing that different business imperatives should lead organizations to prefer and adopt HRM systems that were congruent with the behavioral requirements of their strategies. Subsequently, after Jay Barney introduced the resource-based view of the firm, the behavioral perspective directed attention to the organizational value of management policies and practices that create and maintain human/behavioral resources that are unique, rare, difficult for competitors to imitate, and valuable.

From “Best” Practices to Practices That “Fit”

When it was first introduced, the behavioral perspective represented a departure from prior approaches to the study of HRM in several ways. Most notably, the behavioral perspective argued that organizations can and often do design HRM
policies and practices to achieve their own specific strategic objectives. In the past, HRM scholarship was grounded in a technical perspective, which assumes that some approaches to managing people are generally more effective than other ways of managing people. Thus, the goal for HRM research was to find the “best practices,” and the objective of managers should be to adopt those best practices. In contrast the behavioral perspective assumes HRM policies and practices should be designed to fit an organization’s specific situation. That is, there is no “one best way” for managing people. Policies and practices that are effective for one organization may not be effective in other organizations because organizations differ in the specific employee behaviors needed to implement the business strategy and satisfy key stakeholders. Subsequently, alternative interpretations of this aspect of the behavioral perspective evolved into several competing theoretical perspectives, including the contingency and configurational perspectives.

From HRM Activities to HRM Systems

The embracing of a systems view for understanding HRM also was a major departure from past approaches. Prior research typically focused on a specific type of HRM activity. For example, studies of how employees responded to particular forms of pay or compensation were conducted without taking into account the influence of other aspects of the total HRM system (e.g., hiring or training policies and practices). Subsequently, HRM scholars embraced the systems view and began investigations designed to understand how employees respond to a few specific types of HRM systems—for example, high-performance systems, high-commitment systems, and so on. Consistent with the behavioral perspective, subsequent studies of these HRM system archetypes assumed that employees imbued HRM systems with meaning, which in turn influenced their job-related attitudes and behaviors. However, contrary to the logic of the behavioral perspective, subsequent research on archetypical HRM systems often ignored the assumption that each organization has somewhat unique behavioral requirements that reflect the context in which the organization is situated.

From Employee Outcomes to Organizational Effectiveness as Criteria

A third departure from prior approaches was broadening the criteria used to evaluate the effectiveness of HRM policies and practices. Prior research focused attention on a smaller set of employee outcomes that are of general concern to most employers, especially individual job performance and a few other specific behaviors, such as accepting job offers, absenteeism, and turnover. Consistent with an approach that treats the organization as the focal unit for study, the behavioral perspective also drew increased attention to organization-level outcomes and to the array of role partners with whom employees interact. Thus, HRM scholarship began to investigate the relationships between entire systems of HRM policies and practices and measures of organizational effectiveness, including financial performance, customer satisfaction, and employer reputation.

In a fourth departure from past approaches, the behavioral perspective recognized that employee responses to an organization’s HRM system reflect their interpretation of both the organization’s formal statements about its practices and the actual behaviors of the organizational agents who are responsible for implementing those practices. Often, responsibility for designing the formal policies for managing employee behaviors lies with human resource professionals, whereas responsibility for implementing those policies lies with supervisors and managers; the actual behaviors of organizational agents responsible for managing employees—that is, managerial practices—constitute the informal element of an HRM system. Formal policies can be thought of as distal stimuli, and informal practices can be thought of as proximal stimuli. Research that investigates the question of how to create alignment between formal policies and informal practices has its roots in the behavioral perspective and highlights the importance of understanding the behavior of all employees at all levels in the organization.

Importance

Perhaps the most important contribution of the behavioral perspective has been that it provided a bridge for joining together arenas of managerial
Behavioral Perspective of Strategic Human Resource Management

scholarship that had previously been unconnected. Traditional HRM research had focused on understanding the behavior of individual employees, with little regard for how employee behaviors related to business strategies or the satisfaction of an organization’s multiple stakeholders. Conversely, traditional research into strategic management had largely ignored the implications of strategic choices for managing the firm’s employees; when implications for employee behaviors were acknowledged, the focus was on CEOs and other members of top management.

Another contribution of the behavioral perspective is that it provides a logic that can be used to predict and explain various relationships between characteristics of organizations and their environments on the one hand and management practices on the other hand. For example, in one study of several hundred firms, the behavioral perspective was used to develop predictions that HRM systems would differ among firms that placed greater value on innovation (vs. other strategic imperatives, such as cost reduction or quality enhancement). Consistent with predictions based in the behavioral perspective, HRM systems designed to support behaviors needed for innovation, such as risk taking and teamwork, were more likely to be found in firms pursuing competitive strategies. Similarly, an investigation of HRM practices in firms that emphasized the delivery of excellent customer service (vs. products) found that the behavioral requirements of customer service (which is relatively intangible and coproduced through interactions with end users) provided an explanation for the differences in HRM systems often found in service versus manufacturing industries. Jackson and her colleagues have also used the behavioral perspective to address the question of how to design HRM systems that encourage and support the behaviors needed in organizations that compete on the basis of knowledge, and to formulate a research agenda for investigating how HRM systems can be used to promote environmental sustainability.

The behavioral perspective also is proving to be important for its ability to provide insights about phenomena at multiple levels of analysis, including individuals, work teams, business units, organizations, and networks of related organizations. For example, a study of top management teams by Collins and Clark found that HRM practices that encouraged executives to build their internal and external social networks were associated with better firm performance, presumably because such networks could be leveraged to achieve organizational goals.

As noted, the behavioral perspective is not a formal theory but rather a general framework that can be applied as a guide for management research and practice. Because the behavioral perspective deals with broad issues and incorporates numerous complex constructs, it is difficult to conduct research to test the validity of perspective. Instead, its value lies in its ability to generate useful questions and provoke analyses that help answer those questions.

Susan E. Jackson

See also Behavioral Theory of the Firm; Contingency Theory; European Model of Human Resource Management; High-Performance Work Systems; Human Capital Theory; Human Resource Management Strategies; Stakeholder Theory

Further Readings


Behavioral Theory of the Firm

The behavioral theory of the firm (BTF) is the research tradition that builds on and extends the ideas of the book *A Behavioral Theory of the Firm* by Richard Cyert and James March, published in 1963. A key assumption in this work is that managers are boundedly rational, which means that they cannot fully predict the potential consequences of different actions or may not have fully formed preferences about the potential consequences. Its fundamental insight is that managers will behave differently from what is assumed in rational actor views of the organization, both with respect to internal organizational decisions and control and with respect to organizational relations to its environment. Thus, it was intended as a corrective to rational actor views of the firm, both with respect to internal organizational decisions and control and with respect to organizational relations to its environment. Thus, it was intended as a corrective to rational actor views of the firm, and it sought to have an empirically grounded, process-oriented specification of how decisions are actually made. Its domain was initially the most central organizational decisions such as production, price, and inputs of business organizations, but it has since expanded to cover most organizational decision making, and it is also applied to nonbusiness organizations. BTF built on earlier work by March and Herbert Simon that had argued for the importance of individual bounded rationality and organizational structures as tools for understanding decision making, and it made a number of extensions to this work. Collectively BTF and its predecessor and associated work are known as the Carnegie School. In this entry, the fundamentals of the theory are described, followed by a brief discussion of its evolution and importance for the field of organization theory.

Fundamentals

Much of the BTF research has built on “A Summary of Basic Concepts in the Behavioral Theory of the Firm,” Chapter 6 of Cyert and March’s 1963 book, which discusses its three fundamental concepts (state variables) and four relational concepts (change processes). The fundamental concepts were (1) organizational goals, (2) organizational expectations, and (3) organizational choice. Organizational goals are objectives for the organization created through negotiation among members of the dominant coalition controlling the organization and are not necessarily integrated into a consistent goal system. Organizational expectations are the estimates of future states made by organizational members based on their experience. Organizational choice is made by matching alternatives that are sequentially discovered through search to satisfactory levels on goal variables (i.e., satisficing). Together, these three fundamental concepts outline a form of organizational decision making that makes much lower cognitive and communication demands than do fully rational models; it lets search for alternatives end when an acceptable one has been found, lets different organizational members satisfice on different goals and with different expectations, and lets the organization attend to different goals at different times.

The relational concepts driving action in the model were (1) quasi resolution of conflict, (2) uncertainty avoidance, (3) problemistic search, and (4) organizational learning. Quasi resolution of conflict means that decisions with effects on multiple goals are taken in order to meet constraints of minimally acceptable performance on each goal rather than by making explicit trade-offs. Uncertainty avoidance means that managers do not explicitly forecast uncertainty in the environment; instead they seek to control the environment through negotiation and react to unanticipated problems. Problemistic search means reacting to performance below the aspiration level on a goal variable by searching for solutions “near” the symptom of the problem or the current state of the organization. Organizational learning means adaptation of goals, attention, and

search processes as a result of experience gained through making changes. The overall model is one of managers seeking to react intelligently to challenges they encounter but in a piecemeal fashion that changes the organization incrementally and not necessarily in the direction of some optimal state.

Work using the concepts developed in BTF is found across a broad range of management research. For example, negotiation of goals is an important element in the theory of intraorganizational power, which has offshoots in research on resource dependence and criticality as sources of power and on the ability of powerful units in the organization to resist change. These are building blocks in resource dependence theory. Organizational expectations and problemistic search are particularly important in research on managerial aspirations for performance, which is known as *performance feedback theory*. In this work, expected performance is a source of an aspiration level, which is defined as the point separating performance that is seen as a problem and performance seen as acceptable. Research on how managers form aspirations has shown regular updating rules that closely resemble those formulated by Cyert and March, and changes have been shown to occur at times consistent with predictions of problemistic search. Combinations of BTF concepts can be found in major research traditions, such as in the use of bounded rationality and uncertainty avoidance as key assumptions of institutional theory, leading to the prediction of mimetic behavior among organizations. Resource dependence theory uses a similar rationale as BTF for its prediction that organizations will seek to co-opt and control environments to avoid making disruptive changes in reaction to environmental demands.

**Evolution**

Cyert and March’s 1963 book was a seminar work in organization theory that had two effects: It (1) set the agenda of research on BTF and (2) introduced key concepts that have been used both directly in BTF research and indirectly as building blocks of other forms of research. Though many influences from key concepts in BTF to current theory can be found, some research traditions are of special interest because they directly address its agenda. The idea of organizations learning from their experience by making enduring changes to their behavioral patterns is a key insight from BTF that has inspired research on organizational learning, which in turn has a number of branches. Some researchers ask how organizations maintain the lessons of the past experiences and propose that an organizational memory exists in the form of organizational culture, work processes, and networks as well as in individual memories. Others look at effects of different forms of experience on learning and have examined features of the environment such as complexity, proximity to similar organizations, and structure of the competition. This research includes work on how organizations learn from the experiences of their founders. Yet others look for how learning from one’s own experience shapes subsequent actions, including “momentum” effects that lead past changes to be repeated because they are still salient action patterns in the organization.

BTF developed the concept of standard operating procedures, which range from managerial decision-making routines to specific routines for performing tasks. Later work focused on task routines and developed theory of routines as a basic object of organizational learning. This work is the foundation of evolutionary theory, which examines how gradual selection and modification of routines can lead to organizational buildup of capabilities. It is an active contributor to ideas on knowledge acquisition, transfer, and use in strategy research, which is concerned with the question of how organizations can display persistent differences in performance. Organizational learning from experience, encoded into routines that may be difficult to transfer or even articulate, has been seen as a potential answer to this question, and this idea is further developed in the resource-based view.

Combining the ideas of routines as the object of learning and problemistic search as the learning mechanism leads to a prediction of incremental changes in response to problems, resulting in the performance improvements at a declining rate seen in the learning-curve literature. This work also looks at how the learning curve is affected by organizational boundaries. The interest in routines has also developed into a research tradition that examines how routines are made and altered, often through direct observation in the field, although experiments and inference from performance consequences is also used. This research shows that routines are
remarkably stable but may change in response to a range of factors, including BTF mechanisms such as problemistic search. A related research tradition examines the birth, persistence, and change of organizational rules as a function of organizational problems as well as elaboration of rules and competition among rules. Linda Argote has made central contributions to learning curve research, while Martha S. Feldman and Brian T. Pentland have made important contributions to routines research.

Research on performance feedback has directly examined problemistic search by testing whether organizational performance below the aspiration level leads to changes such as new market behaviors and introduction of innovations. This work assumes influence from other organizations in the adjustment of the aspiration level, which connects the theory with work on how organizational reference groups are formed by similarity, status, or network ties. Conversely, because network ties with other organizations help stabilize the environment, changes in network ties are also an outcome that has been shown to be guided by problemistic search. Much research has combined the problemistic search mechanisms with considerations of managerial risk taking, thus forming a bridge between BTF and prospect theory. It has mainly studied organization-level decisions, but recent work has also found support for problemistic search on unit-level outcomes such as operational safety. This research also examines whether organizations search when they have slack resources, which is also a proposition of BTF. A key feature of the work is tests of whether the performance feedback mechanism from performance to change also includes a sharp drop in the probability of change over the aspiration level, as problemistic search would suggest, especially in organizations that change only with some difficulty. It has generated much evidence to support the BTF propositions. Henrich R. Greve has made key contributions to this research.

The BTF process of quasi resolution of conflict has led to work on how organizations form goals and apply them to specific situations. Unlike the work on performance feedback, the focus is not on how an organization reacts to a specific goal, but rather how one goal or a set of goals become important in a specific situation. One part of this work selects specific contexts for studying political behaviors, such as work on politics among top managers or between the CEO and the board of directors. Another part examines how the attention of the firm’s decision makers changes depending on the decision context. Attention theory can be combined with the performance feedback mechanism to show sequential attention to goals, as predicted by BTF, and can also be applied to work outside the strict boundaries of BTF such as managerial cognition. William Ocasio has made central contributions to this research.

An important concern in BTF was to examine the consequences of the organizational learning resulting from the various mechanisms that were proposed. This has led to a strong stream of research using simulations to model the adaptive consequences of problemistic search in different resource environments, as well as other elements of BTF. The key contributions in this literature concern the trade-offs of different learning mechanisms. Organizations simultaneously learn to execute tasks better and to choose between different tasks, and rapid learning of execution can lead to a competence trap of (long-run) inferior alternatives being chosen. A different version of this trade-off is seen when the organization is modeled as a collective actor rather than a unitary one. Organizations learn from the diverse beliefs of their members at the same time as they socialize the members into the most common beliefs in the organization. Rapid socialization prevents discovery of opportunities, a phenomenon labeled the exploration/exploitation trade-off. Because many organizational mechanisms drive uniformity of beliefs and action, it may be common to see organizations exploit more than they explore. The trade-off between exploration and exploitation has become an important topic in empirical research as well. Recently the modeling tradition has expanded to examine the consequences of decision rules with foresight, such as when a decision maker has a prior belief on which action is the best. James G. March and Daniel A. Levinthal have made important contributions to this research.

Importance

BTF currently exists in the form of a core set of research traditions that follow and build on its central concepts and mechanisms, and these are still very active. There has been notable theoretical and empirical progress in topics such as organizational
learning from the experience of others, organizational routines, organizational attention, performance feedback, and adaptation. As one might expect from a theory built on an observational, process-oriented view of organizational decision making, there is a very strong empirical record of support for the main propositions. Much of this support is fairly recent, which may be surprising for a theory of its age, but this is for the simple methodological reason that the theory mostly makes predictions on the likelihood of changes under certain conditions and thus calls for methodologies of dynamic analysis that entered organizational research during the 1980s. Current research takes the central processes discussed above as essentially proven and moves on to elaborations such as introducing conditions moderating the effects, examining specific mechanisms such as sequential attention to goals, and discovering contextual effects such as new outcomes affected by the theory or new contexts that have not earlier been examined. The theory is sufficiently rich that there are still many remaining questions that attract researcher attention.

One reason it is still such an active source of research ideas is that its mechanisms for how organizations change ring true yet have nonobvious consequences for organizational change and adaptation. Many of these mechanisms are valuable targets of investigation even now because advances in methodology or new data sources allow research that was not possible when BTF was originally formulated. In addition to the research that is clearly within the BTF tradition, it has also infused the larger fields of organization theory and strategy with concepts and processes that are integral parts of other theories. Its influence is thus seen broadly through interaction with other kinds of research and narrowly through research that directly develops its main agenda.

Because BTF is closely related to how decisions are made in organizations, it has developed many findings with clear implications for managers. Many of these concern the role of leadership in organizations and informed the leadership course that James G. March taught Stanford MBA students for a quarter century. The lecture notes were later published as the book On Leadership (with Thierry Weil), and March’s 1994 book on decision making (see Further Readings) is also highly recommended for its didactic value. A central insight in BTF is that organizations are adaptive systems that will take their own path with modest managerial intervention, but these paths are not necessarily optimal. Thus, organizations designed to learn rapidly how to execute strategies may pass up opportunities to discover which strategy is best; organizations designed to rapidly socialize members will fail to update themselves with the new knowledge these members could have brought in, and organizations seeking consistent strategies reduce their strategic flexibility. All these trade-offs have important consequences for performance and survival, and many run counter to lay management advice. Nor do organizations bend to their leader’s will as easily as lay management advice assumes. Attempts to control organizations through goal systems encounter the problem that goal proliferation can lead to inaction, while goal concentration produces unwanted side effects. Attempts to control organizations through explicit rules and routines cut off the improvement opportunities in making the routines evolve, while an overly high emphasis on flexibility runs against the tendency of organizations to form and refine routines. Overall, BTF suggests that leadership be exercised with a light touch and with good knowledge on how organizational decisions are actually made.

Henrich R. Greve

See also Bounded Rationality and Satisficing (Behavioral Decision-Making Model); Garbage Can Model of Decision Making; Institutional Theory; Neo-Institutional Theory; Organizational Learning; Resource Dependence Theory

Further Readings


Big Five Personality Dimensions

People differ from one another in many ways, and these individual differences matter for management theory and practice. The Big Five personality traits (also called the five-factor model of personality) describe five of the most crucial differences between people. An enormous body of research has conclusively established the importance of these five personality dimensions to major topics in management, such as job performance, motivation, leadership, teamwork, entrepreneurship, and strategy. This entry discusses the meaning of the Big Five traits, briefly reviews their history, and highlights their importance for a variety of management topics.

Fundamentals

Personality traits are characteristic patterns of thoughts, feelings, and behaviors. They summarize how people tend to behave across diverse situations. Traits differ from momentary states (e.g., getting upset or being elated) in that they are more stable and enduring tendencies. They highlight both the ways people are similar to others and the ways in which they differ.

The Big Five personality traits are extraversion, agreeableness, conscientiousness, emotional stability (also labeled neuroticism when reverse scaled), and openness to experience (or intellect). Each of the Big Five traits is a continuum along which an individual's characteristic tendency is located (e.g., for extraversion, the continuum ranges from extreme introversion to extreme extraversion). Furthermore, these broad traits encompass a wide range of narrower traits or “facets”; that is, each Big Five trait consists of other traits that fall within its domain. The exact nature of these facets has yet to be established for most of the Big Five, but the facet structure of conscientiousness is fairly well understood.

The trait of extraversion distinguishes between people who are described by terms such as talkative, energetic, and bold (on the high end of the continuum) and those who are instead described by terms such as quiet, shy, and withdrawn. People who score higher on extraversion are more likely to feel comfortable around other people and start conversations, and they don’t mind being the center of attention. People who score lower on this trait tend to talk less, keep in the background, and do not like to draw attention to themselves.

The trait of agreeableness distinguishes between people who are described by terms such as cooperative, sympathetic, and kind (on the high end of the continuum) and those who are instead described by terms such as cold, rude, and unsympathetic. People who score higher on agreeableness tend to respect others, treat them as equals, and are concerned about them. People who score lower feel less concern for others, are not very interested in their problems, and are instead focused on their own gain, are demanding, and tend to contradict others.

The trait of conscientiousness distinguishes between people who are described by terms such as responsible, efficient, organized, and thorough (on the high end of the continuum) and those who are instead described as disorganized, careless, sloppy, and inefficient. People who score higher on conscientiousness tend to be prepared, pay attention to details, and make and follow schedules. People who score lower are more likely to leave things unfinished, waste time, and need a push to get started on their work. Numerous studies have researched the major components underlying conscientiousness (the facets) and these are now fairly well understood. The four main facets are industriousness, reliability, orderliness, and impulse control. Several studies have also found a fifth facet called conventionality. While each of these facets relates to both the broader conscientiousness trait, as well as the other facets, they sometimes predict outcomes differently.

The trait of emotional stability (or neuroticism) distinguishes between people who are described
by terms such as relaxed and unemotional (on the high end of the continuum for emotional stability or low end for neuroticism) and those who are instead described by terms such as nervous, moody, insecure, and irritable. People who score higher on emotional stability tend to feel comfortable with themselves, seldom feel blue, remain calm under pressure, and are less likely to get frustrated about things. People who score lower (i.e., who score higher on neuroticism) tend to worry about things, become stressed out more easily, and get upset and bothered by events.

The trait of openness to experience (or intellect) distinguishes between people who are described by terms such as imaginative, philosophical, creative, and deep (on the high end of the continuum) and those who are instead described by terms such as uninquisitive, unimaginative, unsophisticated, and shallow. People who score higher on openness to experience tend to enjoy thinking about things, such as hearing about new ideas and getting excited by them, tend to have larger vocabularies, and value artistic expression. People who score lower tend not to be interested in abstract or theoretical ideas, avoid philosophical discussions, are less interested in the deeper meaning behind things, and care less about art.

Although the Big Five traits are discussed independently, and clearly have independent effects on various outcomes, it is well known that they are correlated with one another. For example, there is strong meta-analytic evidence that emotional stability is positively correlated with extraversion, agreeableness, and conscientiousness; extraversion is positively correlated with openness to experience; and conscientiousness is positive correlated with agreeableness.

Three topics that relate to the boundary conditions and domain of the Big Five are situational strength, cross-cultural validity, and temporal stability. The effects of personality traits are theorized to depend on the strength of the situational pressures acting on the individual in any given context. Scholars have distinguished between strong and weak situations. In strong situations, the expected behavior is generally understood, and deviations from this behavior may have significant negative consequences. In such situations, personality differences matter less. In weak situations, individuals have much greater discretion to decide among behavioral alternatives, because there is no clear expectation regarding appropriate behaviors, and personality differences matter more.

The five-factor model of personality has been found to be valid across an extensive variety of cultures. Although there have been a few studies that have found either fewer or more than five traits and there is at least some evidence that the meaning of the five traits may vary a bit across cultures, these findings are exceptions to what is typically found. Overall, there is clear and strong evidence for the international validity and generalizability of the Big Five.

Personality traits demonstrate relative stability (indeed, some stability is inherent in the definition of personality) but do change over the longer time span of several years. Furthermore, while specific individuals may change in either direction on any of the traits, there are clear trends in the changes among personality over time as people age. Individuals typically increase in conscientiousness, agreeableness, and emotional stability and decrease in extraversion and openness to experience (changes described as reflecting a “maturity principle”).

Origins and Boundary Conditions

The question of what is responsible for personality differences has attracted a fair amount of attention. Studies of identical and fraternal twins have conclusively established that genetics are a key part of the answer, with genetic differences accounting for roughly 50% of the variance in each of the Big Five traits. For example, differences in extraversion are known to relate to genes related to the dopamine system. Other work has found that differences in extraversion and emotional stability are correlated with the thickness of specific prefrontal cortex regions of the brain.

Other Frameworks and Traits

Other frameworks have been proposed to describe the important ways that people differ from one another at a high level. One of the most popular of these historically is the Myers-Briggs Personality Type Indicator, which contained four dimensions that categorized people into one of 16 different personality “types.” Research has shown that the four dimensions of this conceptualization are directly related to four of the traits of the Big Five, but that the important trait of emotional stability is missing. While this model has been used in research on
personality in the past and has been used extensively for consulting and training purposes (such as helping people appreciate diversity), it has been severely criticized by personality scholars and is no longer seen as an adequate representation of personality.

Perhaps the most viable challenger to the Big Five is the HEXACO model, which includes the Big Five but adds a sixth dimension called honesty/humility. This sixth dimension is reflected in adjectives such as honest, modest, and sincere versus greedy, boastful, and sly. Although evidence for this Big Six model of personality is growing, it is too early to tell whether it will become a serious rival to the Big Five model.

Regarding the domain of the Big Five, it is important to recognize that these do not exhaust the ways that people differ; rather, they summarize the major dimensions of difference. A wide variety of other, more targeted personality traits has been shown to relate to important management concerns. Several of the more prominent of these are self-monitoring (which is related to extraversion), core self-evaluations (part of which is emotional stability), and need for cognition (which is related to openness to experience, conscientiousness, and emotional stability). While these and other individual differences are typically related to Big Five traits, they are not completely subsumed by them and are distinct predictors of variables of interest to management scholars.

Evolution

The history of the Big Five begins with attempts in the first half of the 20th century to reduce the many thousands of descriptive terms that differentiate people to a smaller set using the statistical method of factor analysis. For example, Gordon Allport and H. S. Odbert identified 17,953 such terms in the English language from a large dictionary. It was recognized that many of these terms were related or synonymous, but it was unclear how many dimensions were needed to represent the major differences. While early analyses produced a somewhat large number of factors, subsequent reanalyses of these data discovered five factors. By the late 1960s, five different investigations had found strong evidence that five factors described personality at a broad level.

Research on personality then entered a lull because of a highly influential critique of trait psychology, which shifted the focus of researchers toward behavioral approaches and situational forces. In the subsequent two decades, convincing refutations of the critiques on trait psychology were published. By the latter part of the 1980s, an almost overwhelming body of evidence in support of the Big Five personality traits emerged, and its utility for advancing the understanding of the effects of personality on management topics was widely recognized.

Around that time, new scales designed specifically to measure the Big Five were developed. Two that have been extensively used are the copyrighted measures called the NEO-PI (which includes 240 items [i.e., questions] that measure six facets of each of the Big Five traits) and the shortened version of that measure called the NEO-FFI (which includes 60 items). Other published measures were subsequently developed, including widely used measures such as the Big Five Inventory by Oliver John and colleagues (44 items) and Gerard Saucier’s Mini-Markers (40 items). More recently, an extensive set of public domain measures have been developed and validated and are available from the International Personality Item Pool; these are increasingly being used by academic researchers.

Importance

The importance of the Big Five traits for personality research is that it identifies the primary differences for researchers to investigate and enables researchers to cumulate findings on traits whose overlap was previously unrecognized. This has enabled scholars to achieve a deeper understanding of the effects of personality traits on management topics.

Job Performance

The most established findings concern the impact of the Big Five personality traits on overall job performance. While it has long been known that individual differences in general mental ability (i.e., intelligence or IQ) predict job performance across essentially all occupations and types of work, it has only been since the advent of the Big Five that researchers had the comprehensive framework of personality necessary to investigate the role of personality. The most consistent finding is that conscientiousness is the Big Five personality trait that best predicts additional variance in job performance across all types of work (with moderately sized effects even after controlling for intelligence). Several meta-analyses
have also found that emotional stability affects job performance, although the effect sizes are typically smaller than those for conscientiousness.

In addition to these, extraversion has been found to affect job performance for jobs that involve interpersonal skills (such as sales and managerial positions), and some studies have found that agreeableness and openness to experience predict performance in customer service jobs (although most have found these last two traits to have no relationship to overall job performance). The positive impact of conscientiousness and emotional stability on performance appears to be partially due to greater motivation, as both of these traits have been found to consistently relate to multiple aspects of performance motivation (e.g., goal setting).

When one breaks overall job performance into task performance and contextual performance (or organizational citizenship behaviors [OCBs])—that is, those things not explicitly required to fulfill job requirements but that significantly improve overall organizational functioning), then the impact of the Big Five personality traits changes somewhat. In particular, agreeableness has been shown to relate to “interpersonal facilitation” and is a powerful predictor of extra-role behavior. A recent meta-analysis has found that each of the Big Five traits predicts OCBs and, furthermore, that emotional stability, openness to experience, and extraversion predict OCBs above and beyond the effects of conscientiousness and agreeableness.

While the above research has addressed main effects of the Big Five traits on job performance, there is also a small amount of work that has tested interaction effects between different pairs of the Big Five traits on performance. For example, research has shown that agreeableness and extraversion can moderate the effects of conscientiousness in jobs requiring cooperative and interpersonal interactions with others, such that the effects of higher conscientiousness are stronger for people who score higher on agreeableness or extraversion. These and similar results are intriguing but need to be replicated by future studies.

**Other Management Topics**

The Big Five are related not only to job performance but also to job satisfaction, turnover, and counterproductive work behaviors. Meta-analytic results have found that emotional stability, extraversion, and conscientiousness are each associated with higher levels of job satisfaction. Furthermore, meta-analytic evidence has found that each of the Big Five is related to reduced turnover. Finally, both conscientiousness and agreeableness have been shown to be negatively related to deviant behaviors such as theft, substance abuse, and disciplinary problems.

A variety of research has examined the role that the Big Five traits play in leadership. Research suggests that people who score higher on extraversion have a greater motivation to become leaders. Furthermore, meta-analytic results have found that extraversion, emotional stability, conscientiousness, and openness to experience each predict leader emergence and effectiveness, and that extraversion has a sizable relationship with transformational leadership behaviors.

A considerable number of studies have examined the role of the Big Five on teamwork and team effectiveness. Unlike research that considers individual-level personality and individual-level outcomes, these studies examine the role of personality at the team level, typically operationalized as the average, minimum, or variance of the team members’ individual scores. Meta-analytic results across several studies suggest that team agreeableness and team conscientiousness are the most important traits and that both of these affect team process and performance.

The Big Five personality traits have also been found to play a significant role in entrepreneurship. One meta-analysis reported that entrepreneurs differ from nonentrepreneur managers in being higher on conscientiousness, emotional stability, and openness to experience and lower on agreeableness. Meta-analytic evidence also shows that four of the Big Five (all but agreeableness) are positively related to entrepreneurial intentions and entrepreneurial performance.

Although few studies have examined the roles of the Big Five traits on business strategy and top management team dynamics, there is suggestive evidence that they may play an important role. For example, one suggestive study found that each of the Big Five traits was associated with one or more aspects of top management team dynamics. Another study of CEO personality in small-to-medium Indian firms found that each of the Big Five traits was associated with strategic flexibility (the ability to adapt to environmental changes), which in turn was associated with firm performance.
Given the extensive amount of research showing that the Big Five personality traits affect a broad range of management topics, it seems likely that future research will continue to discover the ways that personality is important to management and organizational behavior.

**Marc H. Anderson**

See also Emotional and Social Intelligence; Human Capital Theory; Individual Values; Locus of Control; Psychological Type and Problem-Solving Styles; Type A Personality Theory

Further Readings


**BOUNDED RATIONALITY AND SATISFICING (BEHAVIORAL DECISION-MAKING MODEL)**

The last few decades have witnessed greatly enhanced interest in behavioral decision theory. Unlike traditional decision theory, which is normative or prescriptive and seeks to find an optimal solution, behavioral decision theory (while it yields important practical implications) is inherently descriptive, seeking to understand how people actually make decisions. Long considered to be a fringe discipline, and perhaps simply a pesky nuisance to those advocating “economic decision making,” behavioral decision theory has emerged as an important and promising domain of research and practice. Two behavioral decision theorists—Herbert Simon and Daniel Kahneman—neither of them economists—won the Nobel Prize in Economics for their work. Further, Cass Sunstein, a leading writer on behavioral decision theory and an advocate of using “paternalistic intervention” to influence decision making, was appointed by President Obama to serve as administrator of the White House Office of Information and Regulatory Affairs. In that role, his views have drawn both applause and condemnation. Popular books such as Thaler and Sunstein’s *Nudge*, Ariely’s *Predictably Irrational: The Hidden Forces That Shape Our Decisions* and Kahneman’s *Thinking, Fast and Slow* have introduced these issues to a broader audience. Behavioral decision theory has been used to offer novel insights into disparate issues such as terrorism futures, road rage, whether to punt, bullet selection, divorce, and organ donation, as well as many management topics. This entry considers (a) rationality and its limits; (b) consequences of such bounds on rationality; (c) the roles of automatic information processing; (d) the relative merits of clinical, actuarial, and clinical synthesis approaches to decision making; (e) controversies relating to paternalistic intervention; and (f) the prospects of statistical groups and prediction markets.

**Fundamentals**

*Rationality and Its Limits*

In his 1947 book, *Administrative Behavior*, Herbert Simon wrote that decision making is the
heart of administration and that an operational administrative decision is correct, efficient, and practical to implement with a set of coordinated means. *Administrative Behavior* focused on the behavioral and cognitive processes of making rational decisions and served as the foundation for Simon’s later work and for much of behavioral decision theory.

In a seminal 1955 article, “A Behavioral Model of Rational Choice,” Simon presented what he later called “my chief epistle to the economists,” the first major challenge to the concept of rational economic man. He did this not as an intended criticism of traditional economic perspectives but to complement them with a richer, more reality-based view.

The traditional “rational economic man” model of decision making views humans as capable of optimizing. Assumptions underlying that perspective include that the decision maker

- has full knowledge of relevant aspects of the environment, including alternatives, relevant events (states of nature), the probabilities of those events, and the outcomes associated with combinations of alternatives and events;
- possesses a well-organized and stable set of preferences;
- enjoys superb computational abilities capable of optimization;
- is capable of “cool” decision making, not swayed by emotions and stress; and
- has immediate access to costless information.

Simon viewed these assumptions as unrealistic in view of the many constraints facing human decision makers. He presented his view of a “new rationality,” one that replaced “rational economic man” with “administrative man.” This new rationality includes the following points:

- The classical view of rationality is replaced with “bounded rationality” in which the decision maker tries to find satisfactory solutions within many cognitive, perceptual, situational, and other bounds.
- Aspiration levels are important and dynamic. Success and failure may result in changing levels of aspiration and thus changes in what is deemed acceptable or unacceptable.
- Information acquisition and processing are time-consuming and costly. As such, the question of the ideal level of persistence in pursuit of a goal involves a trade-off between the potential costs and benefits of search.
- Preferences are fluid. For example, preferences may change with time and maturation. In addition, consequences may change one’s payoff function. And, of course, we may simply not know our preferences because of lack of experience (and corresponding reluctance to explore alternatives).

Simon reasoned that, in view of the bounds on rationality and associated difficulties, the concept of human decision makers as optimizers is unrealistic. In its stead, Simon proposed that human decision makers *satisfice* rather than optimize. While optimizers seek to determine the best possible alternative in the feasible set, satisficers seek the first acceptable alternative in that set.

While satisficing may seem undesirable (because, for instance, a better alternative may be available than the first acceptable alternative and because it makes the decision maker a slave to the order in which alternatives are available), it recognizes that information search and acquisition are costly. Simon has equated satisficing with finding a needle in a haystack and optimizing with finding the sharpest needle in the haystack, a monumentally more difficult task. Simon reasoned that sometimes just a needle is needed.

Graham Allison used his analysis of the Cuban missile crisis to challenge the economics-based, utility-maximizing rational actor model then dominant in understanding foreign policy decision making. He proposed alternative models recognizing organizational and other constraints (building in part on Simon’s work) and top leaders’ political actions.

Other scholars have examined the nature and degree of constraints on rationality. For instance, George Miller wrote of “The magical number, plus or minus two,” showing that for absolute judgments of unidimensional stimuli such as tones, taste intensities, visual position, loudness, and points on scales, humans are capable of a limited and narrow range of about seven, plus or minus two, absolute judgments of unidimensional stimuli. Thus, human capacity for making unidimensional judgments is limited and varies surprisingly little from one sense to another.

In an early examination of the ability of human decision makers to serve as “intuitive statisticians,”
Paul Slovic reviewed evidence relating to the validity of clinical judgment. He concluded that, in areas such as investment analysis, performance of mutual funds, medical diagnoses, and forecasting, validity was poor and interrater reliabilities were typically low. Further, he came to the “quite disappointing” conclusion that, in general, clinician training and experience have little impact on validity but increase confidence in the decision and reduce willingness to accept external inputs.

Daniel Schacter discussed memory limitations, writing of the “seven sins of memory.” His premise was that, though often reliable, memory is also fallible. Schacter identified three “sins of omitting,” or types of forgetting. These include transience, absent-mindedness, and blocking. A second set, “sins of commission,” are forms of distortion. These are misattribution, suggestibility, and bias. A final “sin” is the inability to erase intrusive recollections. Schacter argued that these “sins,” while troublesome, are by-products of otherwise adaptive features of memory.

Some Consequences of Limits on Rationality

Constraints on rationality result in many heuristics and biases. **Heuristics** are simplifying rules of thumb. One simplifying heuristic—satisficing—was noted earlier. Amos Tversky and Kahneman proposed others, including the following:

- **Availability** is the tendency to estimate the probability of an event on the basis of how easy it is to recall examples of the event.
- **Representativeness** is the tendency to place something in a class if it seems to represent, or “look like,” the class.
- **Anchoring and adjustment** is the tendency to use an early bit of information as an anchor and then use new information to adjust that initial anchor. We tend to give too little weight to new information, resulting in insufficient adjustment.
- The **default heuristic** is the acceptance of the default presented to us, whether it is the default setting when installing computer software or the default presented on a form. As noted later, this can be a powerful and unobtrusive determinant of decisions.

Constraints on human decision making also lead to a variety of systematic biases. These include the following:

**Conservatism in information processing** occurs when we under-revise past estimates when given new information.

**Framing effects.** The way information is framed can influence choices. Kahneman and Tversky proposed **prospect theory** to explain some consequences of framing. Prospect theory posits (among other things) that we evaluate alternatives in terms of relative “gains” and “losses” from the status quo rather than in terms of absolute values.

**Hindsight bias** (or “Monday morning quarter backing”) is the “I knew it all along” phenomenon. This is the tendency for people who learn an outcome of an event to believe falsely that they would have predicted the reported outcome.

**Confirmation bias** is the tendency for people to seek, interpret, and recall information in ways that confirm their preconceptions.

**Overconfidence bias** occurs when people’s subjective confidence in their judgments is greater than their objective accuracy.

**Illusory correlation** is the tendency to “see” relationships between variables that do not in fact exist, perhaps because of our stereotypes or expectations.

**Gambler’s fallacy** is the fallacy that if deviations from expected behavior are seen in repeated independent trials of a random process, deviations in the opposite direction are more likely. For example, if five consecutive flips of a fair coin come up heads, the gambler may believe a tail is “due.”

**Escalation of commitment,** or the **sunk cost fallacy,** is the tendency to “throw good money after bad.” That is, while the decision to continue to invest in a course of action should be made on the basis of future benefits and costs, we tend to justify further, escalating, investment on the basis of sunk costs, such as the money or lives that have already been expended.

Importance

**Heuristics in Continuous Environments**

Much of the early research relating to heuristics and biases involved one-time decisions. Such decisions—whether to have chemotherapy or surgery, whether or not to mount an attack on an enemy, or whether to marry one’s childhood sweetheart—are common and often critical. Nevertheless,
many real-world decisions are in continuous environments, characterized by regular, often redundant, feedback and the opportunity to make incremental adjustments. In such environments, some heuristics may be less troublesome. For example, conservatism in information processing may not be a serious problem in continuous environments since there will be many opportunities to revise.

**Fast and Frugal Heuristics**

While the overwhelming emphasis on heuristics and biases has been on their dangers, some heuristics, if used consciously and appropriately, may be functional. For example, Gert Gigerenzer has championed use of “fast and frugal heuristics” in an “adaptive toolbox.” He notes, for example, that Harry Markowitz, who won the 1990 Nobel Prize in Economics for his work on optimal asset allocation, did not use his award-winning optimization technique for his own retirement investments. Markowitz relied instead on a simple heuristic, the $1/N$ rule, which states, “Allocate your money equally to each of $N$ funds.” Research showed the $1/N$ heuristic to outperform 12 optimal asset strategies. The optimization models performed better at fitting past data than did the simple heuristic, but there were worse at predicting the future.

**Automatic Information Processing**

Research also shows that much decision making, rather than being a conscious deliberative process, occurs automatically at nonconscious levels. For example, when we have repeatedly faced a decision situation, we may develop scripts. Scripts are models held in memory that specify behaviors or event sequences that are appropriate for specific situations, such as steps in a performance appraisal. Scripts may be effective when dealing with routine situations but may cause problems in novel situations. Research has addressed the benefits and costs of automatic processing, the consequences of conflict between automatic and conscious processing, and the manner and consequences of switching from one mode (automatic or conscious) to another.

**Clinical and Actuarial Approaches, Improper Linear Models, and Clinical Synthesis**

In view of the many heuristics and biases influencing human decision makers, the *clinical-actuarial controversy* compares accuracy of human (clinical) decision makers to that of actuarial (statistical) models. Research strongly supports the view that actuarial models consistently outperform unaided clinical judgment. Robyn Dawes wrote that there was no research showing clinical judgment to be superior to statistical prediction when both are based on the same codable input variables. That is still the case.

Nevertheless, it is sometimes infeasible to develop a model that optimally relates predictors to outcomes (such a model is termed proper). There may, for instance, be too few observations to permit development, or there may be no measurable criterion. In such cases, an improper linear model—one with which the weights of the predictor variables are obtained by some nonoptimal method, such as set to be equal—may be useful. For instance, divorce was significantly predicted by subtracting instances of quarrels from instances of love making, though neither variable was itself a significant predictor. Unit weighting was also used to select a superior bullet for use by the Denver Police Department.

One intriguing form of improper linear model is a *model of man*, so called, with which regression analysis is used to develop a linear model of an individual’s decision process. That model is then used to make decisions in place of the individual (this is called *bootstrapping*). It has the important benefit of perfect reliability, enhancing validity. Remarkably, every properly executed study comparing the validity of decisions of individuals to those of their models of man has found the models to be superior.

Despite the overwhelming evidence in support of use of proper and improper linear models, their adoption has been fiercely resisted, even by statistically trained psychologists. Dawes has identified, and attempted to refute, primary causes for such resistance. For example, some critics argue that use of a statistical model rather than, for instance, an interview to choose from among job candidates or a doctor’s judgment to diagnose a patient is unfair and dehumanizing. Dawes responds that clinical judgments are seriously flawed and may be self-fulfilling. He notes that some of the worst doctors spend a great deal of time talking with their patients, read no medical journals, order few or no tests, and grieve at the funerals. Also, since the accuracy of statistical models can be assessed and is often low (though higher than that of clinical judges), critics may object to their “proven low validities.”
In the face of such opposition to replacement of clinical decision making with use of actuarial models, an alternative—sometimes called *clinical synthesis*—has been proposed in which output of actuarial models is provided to individuals as input to their decisions. The evidence on clinical synthesis is clear: Individuals’ decisions are better when they receive outputs from actuarial models, but not as good as if they had simply used that output without modification. One important question, therefore, is to find ways to encourage decision makers to rely more heavily on the recommendations of actuarial models.

**Paternalistic Intervention**

A recent, important controversy relates to the efficacy and desirability of using knowledge about human cognitive limitations and tendencies in order to “nudge” people toward “desirable” behaviors, a process termed “paternalistic intervention.” Two recent books—*Nudge* and *Predictably Irrational*—and numerous articles have highlighted the importance of knowledge of behavioral decision making as well as its controversial implications. The controversy revolves primarily around ethics of use of unobtrusive nudges and the question of who determines what actions are “desirable.”

As an example, most states, and many other countries, use an “opt-in” or “explicit consent” form in which people must take a concrete action, such as mailing in a form, to declare they want to be organ donors. In several European countries an “opt-out” rule, also called “presumed consent,” is used, in which citizens are presumed to be consenting donors unless they indicate otherwise. Traditional economics would argue that if it is easy to register as a donor or nondonor, the options should lead to similar results. However, in Germany, with an opt-in system, just 12% give their consent, while in Austria, with an opt-out system, 99% do. A simple nudge, in this case manipulation of the default heuristic, has remarkable consequences.

**Statistical Groups and Prediction Markets**

While there is substantial evidence that statistical models of decision makers (i.e., models of man) outperform those decision makers, those models perform at a level equivalent to that achieved by averaging judges’ inputs. This is because averaging across many judges sharply reduces unreliability, one primary benefit of models of man. This suggests that use of *statistical groups*—that is, averaging of group members’ judgments—may be useful. In a classic example, Francis Galton examined a competition in which contestants attempted to judge the weight of a fat ox at a regional fair in England. The ox weighed 1,198 pounds; the average guess, from the 787 contestants, was 1,197 pounds. More recently, members of the Society for American Baseball Research were asked in 2004 to predict the winners of the baseball playoffs. In each round of the playoffs, the favored choice of the expert group was correct 100% of the time.

A logical extension of statistical groups is use of *prediction markets* that pool individual judgments to forecast the probabilities of events. In such markets, individuals bid on contracts that pay a certain amount if an event occurs. For instance, a contract may pay $1 if sales of a particular company are above a certain level. If the market price for the contract is $0.60, the market “believes” that sales have a 60% chance of exceeding that level. Such markets are being used internally at Google, Hewlett-Packard, IBM, and elsewhere.

Prediction markets such as the Iowa Electronic Markets and InTrade have been remarkably successful in predicting outcomes such as winners of elections and Oscars. The most controversial of these markets (rejected following vitriolic response) was proposed to predict terrorist activities. Critics labeled the proposal as “incredibly stupid” and “a futures market in death.” Nevertheless, following the attempt of Umar Farouk Abdulmutallab, the “underwear bomber,” to detonate plastic explosives on a Northwest Airlines flight, security experts close to the situation said a prediction market, with its ability to integrate diverse information, could have prevented him from boarding the flight.

In summary, behavioral decision making has dramatically grown in the richness of its insights as well as in its acceptance and impact. It highlights key factors influencing the nature and quality of human decisions, including systematic deviations from the “rational economic man” model of decision making. While inherently descriptive, it suggests important, and sometimes controversial, policy implications for diverse areas such as management, finance, medicine, and foreign policy.

Ramon J. Aldag
See also Decision-Making Styles; Garbage Can Model of Decision Making; Group Polarization and the Risky Shift; Intuitive Decision Making; Managerial Decision Biases; Prospect Theory; Schemas Theory; “Unstructured” Decision Making

Further Readings

Brainstorming

The term brainstorming, as articulated by Alex Osborn in his book Applied Imagination, refers to a set of four rules designed to improve creative idea generation. Although first applied in groups, brainstorming rules have also been used extensively to structure individual efforts at idea generation. Because much research on idea generation has used brainstorming rules as a foundational element, time-limited experimental sessions in which all participants are given Osborn’s rules are sometimes known as “brainstorming tasks.” Perhaps owing to its popularity, brainstorming is also often used as a generic synonym for “generating ideas,” especially in situations where a block of time is set aside exclusively for idea generation. Brainstorming is relevant to management for its explicit recognition of the importance of creative idea generation and for its potential to increase the likelihood of getting creative ideas in situations where creativity is needed for organizational effectiveness. The theory’s central management insight is that efforts at creative idea generation deserve focused attention and can benefit from adopting a formalized structure. The sections that follow describe brainstorming in more detail, provide a brief overview of research assessing its validity and impact, and offer a list of key sources on the topic.

Fundamentals

The four rules of brainstorming are (1) to generate as many ideas as possible, (2) to avoid criticizing the ideas, (3) to attempt to combine and improve on previously articulated ideas, and (4) to encourage the generation of unusual or “wild” ideas. Collectively, the rules may be viewed as a set of goals to strive for when generating ideas. Each rule embodies a separate principle, yet their overall character is also important in the sense that it implicates an underlying logic in which the generation of variation in ideas is maximized (Rules 1, 3, and 4) and separated temporally from the selection and retention of ideas (Rule 2).

The first rule, to generate many ideas, presumes that the likelihood that any single idea will be regarded as creative is low. Osborn’s remedy for this was to encourage people to develop a large sample of ideas from which to choose in the hopes of getting at least one that would be regarded as sufficiently creative. The idea that a large sample of ideas is more likely to yield at least one creative idea compared to a small sample is consonant with research that relies on evolutionary theory as a basis for understanding creativity.

The second rule, to avoid criticism, is intended to ensure the separation of idea generation from idea selection. It also signals a safe environment for generating novelty. Osborn observed that idea
Brainstorming generation efforts can derail when groups start to argue the merits of each individual idea, and he asserted that creativity would be better served if people refrained from evaluating the merits of individual ideas until after a large sample of ideas had been generated. There are at least two reasons why this rule makes sense from a contemporary perspective. First, the criticism of ideas may affect the types of ideas people generate. In particular, individuals might be reluctant to offer their less obviously practical ideas if they are concerned about criticism. Yet because novelty is a key property of creativity, such ideas may often end up being among the most desirable. Second, criticism may affect the number of ideas people generate. The degree to which this is a problem may have to do with individuals’ own reactions to anticipated criticism, but there is reason to think that many people may offer fewer ideas when they expect criticism, and some people’s idea production might be severely affected.

The third rule, combining and building on prior ideas, recognizes that creativity often arises from new associations between existing concepts. When ideas are generated in groups, such a rule attempts to provide each person with explicit encouragement to attend to and leverage the cognitive efforts of others. Contemporary theories of cognition in individuals and groups suggest that such efforts might sometimes improve idea generation.

The fourth rule, to encourage the generation of wild ideas, is predicated on the assumption that human idea generation is not completely random. By aiming specifically to generate novel ideas, people may be more likely to generate such ideas. Contemporary theories of creativity and learning suggest that engagement with novelty is likely to produce more novelty in thought.

Used properly, brainstorming rules are proposed to improve the number of ideas produced in a concentrated session of idea generation. Brainstorming rules are also supposed to increase the likelihood of production of one or more ideas later judged to be creative. When used in groups who generate ideas together face-to-face, brainstorming rules have also been proposed to improve satisfaction with idea generation as an activity, feelings of efficacy at generating creative ideas, and willingness to engage in creative idea generation in the future. In organizations, brainstorming rules may also lead at times to competitions for status, opportunities to build an attitude of wisdom, support for organizational memory of prior successes, and skill variety for employees, and they may even afford opportunities to impress clients and generate firm income in professional service organizations.

**Importance**

Although some of the reasoning supporting the likely utility of brainstorming rules has changed over time, the overall thrust of each of the brainstorming rules remains viable, in theory, as a means to improve creative idea generation. Yet despite decades of research on aspects of brainstorming, conclusions about many aspects of its functioning remain surprisingly tentative. One reason for this equivocation is that relatively little research has directly attempted to assess the contribution of brainstorming rules to idea generation. Instead, the major question of interest to researchers has typically been the relative effectiveness of group versus individual idea generation. With regard to this question, one set of conclusions is fairly clear: under most circumstances, individuals working alone generate more ideas and more creative ideas than individuals working in interacting groups. Researchers aiming to understand why groups do less well than individuals at generating numerous and creative ideas have determined that an important cause of this performance gap seems to be the waiting time between having an idea and verbalizing it within an interacting group setting where not everyone can speak at once.

At the same time, there are other possible outcomes of idea generation that may be valuable to management, and some of these may be best accomplished in groups. For instance, individual outcomes related to satisfaction, feelings of efficacy, and interest in idea generation all seem to benefit from group idea generation, as do organizational outcomes such as competitions for status, opportunities to build an attitude of wisdom, support for organizational memory of prior successes, skill variety for employees, impressing clients, and generating income. In general, more evidence is available to support the individual outcomes than the organizational outcomes. Finally, there is beginning to be some evidence that interacting groups can affect the characteristics of generated ideas relative to ideas produced by individuals working alone.

Some research does assess brainstorming rules for their effectiveness in terms of the basic outcomes of the number and creativity of ideas. Overall,
this research finds that there is room to improve on
any efficacy of brainstorming rules. For instance,
there is evidence that both the quantity and novelty
rules of brainstorming can be improved by convert-
ing them to specific, challenging goals that ask for a
specific, difficult number of ideas or a specific, dif-
ficult percentage of novel ideas during a fixed time
period. Specific, difficult quantity goals have been
shown to improve the number of ideas generated
relative to “basic” brainstorming rules, and specific,
Difficulty novelty goals have been found to improve
novelty and creativity of ideas relative to basic brain-
storming rules. Advantages of the specific, difficult
goals seem to depend, at least to some extent, on
the degree to which people generating the ideas are
highly committed to the specific, difficult goals, with
higher performance associated with higher commit-
ment. Indeed, research suggests that many individu-
als may prefer to generate ideas that are less, rather
than more, creative.

A variety of other research has also looked at
augmenting brainstorming rules with additional
rules or procedures. In particular, rules based on
how trained facilitators act in groups have shown
promise in research. Such rules include exhortations
to stay focused on the task, avoid telling stories
or explaining ideas, and to keep generating ideas
by bringing up previous ideas during a lull. Like
the original rules, these additional procedures can
largely be used by either interacting groups or indi-
viduals working alone. A few procedures, including
some electronic idea generation aids and some fairly
elaborate paper-based rules, are intended primarily
to be used by a group of people generating ideas at
the same time either in person or within a techno-
logically mediated space.

The resilience of brainstorming across decades
of research and practice is a testament to both the
logic underlying its formulation and the need for
creative ideas. For managers, perhaps the best advice
is that idea generation may benefit from structure. In
general, the small base of brainstorming research in
applied settings suggests that benefits are more likely
to accrue when managers promote careful adherence
to brainstorming rules rather than treating them as
casual guidelines. For researchers, the many remain-
ing questions surrounding brainstorming suggest
that our understanding of creative idea generation
and how to improve it remains incomplete.

Robert C. Litchfield

See also BSVR Theory of Human Creativity;
Componential Theory of Creativity; Goal-Setting
Theory; Interactionist Model of Organizational
Creativity; Open Innovation; Patterns of Innovation;
Quality Circles; Social Facilitation Management;
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Bureaucratic Theory

Bureaucratic theory is an essential tool for under-
standing capitalist democracy. No longer bound by
the power of kings, or political or religious leaders,
social life is now shaped by the desire to act efficiently
toward democratically established ends justified on
the basis of scientific knowledge articulated into rules and regulations. The aesthetic of bureaucratic action is “without regard to person,” its impersonality. But can bureaucracy’s efficiency be reconciled with a livable social life? The gaps between goal-oriented rationality and our hopes for a humane and just society provoke continuing debate. It is easy to talk about bureaucracies, for we all have experience of and opinions about them. But theorizing or evaluating them proves difficult. Some see bureaucratic as a derisive or pejorative comment about our helplessness in the face of institutionalized impersonality, with its flavor of a dystopic, dehumanized world. Others see it as a technique for organizing scarce resources efficiently in pursuit of complex social and economic objectives. Despite its vast literature, the theory of bureaucracy remains an unsolved puzzle for social scientists, whether theorists of management and decision making in the private or public sectors, in government, institutionalized religion, or elsewhere. We remain unsure about bureaucracies’ nature even as we depend on them more than ever. But recent events have brought bureaucracy’s strengths and weaknesses back into view even as many feel Max Weber’s analysis more or less put the topic to rest with little more to be said. This entry will summarize the familiar features of bureaucratic theory and also show that, while Weber’s work was exemplary, social theories are never more than tools to help us think about our own experiences and activities; they cannot reveal an objective social reality that is independent of us.

Fundamentals

Bureaucracy is an ancient administrative strategy, but it moved to the center of social and political life in 18th-century Prussia under Frederick the Great. Political and economic dominance followed as Prussia’s state agencies—the army, national health, education, tax collection, and so on—were reconstructed to eliminate nepotism and corruption and make practical use of “state-istics,” facts gathered and analyzed in the service of state efficiency. As a politically active historian, economist, and sociologist, Weber’s analysis of the impact of elevating bureaucracy into this central political position remains a superb example of what the social sciences can achieve. As he summarized it, bureaucracy administers public or private policies on the basis of knowledge—characterized by the six principles he delineated:

1. Policies shall be executed by technically qualified personnel.
2. Occupying offices that shall be defined by (a) learnable rules that give officials specified powers of decision, command, and control and (b) productive and administrative resources that remain the property and purview of the office.
3. Which offices shall be related in a hierarchy of authority and reciprocal communication.
4. The official’s decision making shall be rational, impersonal, and based on records and systematically gathered data (statistics).
5. The official’s compensation shall be by regular salary and career-determined benefits in the expectation his or her work comprises a fully occupying long-term career.
6. A reciprocal expectation that the official is bound to a “faithful and impartial” execution of his or her organizational-defined duties.

Bureaucratic theory, then, is more than a way of thinking about the world, of preferring science-based facts to human opinion. It is an exploration of the mode of social relations that became increasingly prevalent with the neo-Enlightenment rise of rationalism as a social and personal philosophy. Given our concept of property and its ownership by individuals, economic relations became predominantly rationalized and individualistic. So long as these relations were legally permitted, markets arose. But new nonfeudal, nonreligious, non-market relations also arose during capitalism’s emergence, especially out of people’s preparedness to accept “knowledge work” and the production-related authority of others. At the same time, we have no expectation that any real government or private sector organization could be a “perfect” or “total” bureaucracy. So the value of bureaucratic theorizing may be less in its efficiency-oriented prescriptions than in how it directs the analyst’s attention to what it does not illuminate, such as rationalism’s impact on society or the employee’s personality. Bureaucratic theory is actually an attempt to separate what can be made machine-like, determinable, and uninteresting about human relations from that that cannot be so treated and
so remains interesting and germane to the human task of shaping social relations. Against the assertion that bureaucracy is administration on the basis of scientific knowledge, we might deploy bureaucratic theory to explore the consequences of a society’s, an organization’s, or an individual’s “knowledge absences.” Thus bureaucratic theory should not be seen as the challenge to balance efficiency against effectiveness, but as a vestige of our attempt to shape the human condition through scientific analysis.

Evolution

While many cite Weber’s assertion that bureaucracy was “administration on the basis of knowledge,” this really obscures more than it clarifies. It is the usual academic’s trick of defining one unknown in terms of another, for knowledge is an even more problematic concept than those citing Weber’s comment care to admit. Given our current sociological methods, we presume that the truth value of knowledge is coherent, contingent on “scientific rationality” and on rigorously examined cause-and-effect relations. This is an exceedingly narrow definition of “knowledge.” Weber was less constrained and argued for several kinds of rationality, each of which would provide the basis of a certain kind of social knowledge—zweckrational, wertrational, affectual, and traditional, which some translate as practical, theoretical, substantive and formal—sometimes abbreviated to functional and substantive. Weber’s “ideal types” arose from his appreciation of the gulf between theorizing organizational relations as logically rational and the historical evidence of more complex forms of social reasoning. Rather than saying, as many do, that an ideal type was an exemplar of social relations that can be explained as rationally determined, Weber was a historian who adopted a more complex methodology—absent which his theory of bureaucracy cannot be properly understood.

Bureaucracy’s power lies in how it helps us synthesize many role occupants’ specialized expertise and so bring their many different rationalities and specialties to bear on the increasingly complex tasks we humans wish to engage—putting a man on the Moon, curing cancer, preventing the proliferation of nuclear weapons, and so on. Its power arises from (a) the many different kinds of knowledge, scientific and otherwise, that can be related to the goals chosen and (b) the administrator’s capacity to synthesize them into coherent and manageable purposive activity. It is tied up with the division of labor—and knowledge—the demarcating characteristics of the modernist era. But we should also recall Adam Smith’s earlier explanation for economic growth, role occupants’ ability to focus their imagination on a specific task and raise their productivity without being fully instructed by superiors, something that can only happen when the superiors’ rules are incomplete and underdetermining, allowing “space” for the worker’s personal agency. Here, Smith advanced an agency-based theory of knowledge growth that was missing from bureaucratic theory, for that has no related theory of learning and, therefore, of scientific or economic growth. Learning and growth, and morality too, lie beyond the bounds of the bureaucratic analysis.

Those who analyze and criticize bureaucratic theory on its own grounds, rather than for its failing to provide them a positivist and deterministic theory of administration, might focus on the contradictions between Weber’s social rationalities—wherein lie the subtle “knowledge absences” that real organizational administrators have to address. To illustrate this with a simplified example, “functional rationality” focuses on means, whereas “substantive rationality” focuses on ends—the distinction between efficiency and effectiveness that led Mannheim to argue that the flaw in bureaucratic theory was that functional rationality tended to drive or “crowd out” substantive rationality. In other words, given the specializations and divisions of labor within a bureaucracy, the role occupants’ understanding of why they were doing what they were doing was always limited, and they would be only imperfectly aware of the overall goal. This would lead to counterproductive behavior, to their striving to do the wrong thing perfectly rather than do the right thing even imperfectly—what lives on as “the perfect being the enemy of the good”—behavior that is interesting precisely because it springs from knowledge absence. Real administrators have to bridge the distinction between functional and substantive reasoning.

Clearly, we should see every real social relation as “mixed” or “synthesized” in that any compelling analysis must reflect Weber’s several rationalities and that a “rigorous” one-dimensional explanation is neither achievable nor sought. The historian’s
objective is to illuminate social situations and our sense of what might be, or have been, possible. The human actors who synthesize or instantiate action in underdetermined situations can never be detached from the outcome, so at no time can human action be fully “explained” by rational or causal analysis of its circumstances. Hence, it is a profound methodological error to grant a bureaucracy status as an independent nonhuman entity, a thing-in-itself with its own identity, characteristics, and agency—as is our modernist habit. From Weber's point of view, bureaucratic theorizing was about probing the consequences of impacting historically prior modes of social order with an emerging scientific mode. He analyzed the historical development of capitalism, what happened as the ideology of scientific rationality drew economic ideas and objectives into our political process, and even the domination thereof.

To think of Weber as an organizational theorist who proposed bureaucracy as a mechanical “one best way” of organizing is to miss his point entirely. On the contrary, his principal concern was how the power and effectiveness of the bureaucratic approach would feed back into complex multirationality of social life and transform or “disenchant” it, promoting the amoral ends-oriented philosophy widely suspected of helping to precipitate the financial crash of 2008.

One important knowledge absence Weber moved beyond the grasp of bureaucratic theory is the process of establishing the bureaucracy's objectives. In the public sphere, goals are outcomes of our collective political process, and we presume that the bureaucratic agency is a neutral instrument of their execution. The bureaucratic approach minimizes the extent to which individual human shortcomings—bounded rationality and bias—deflect the agency from its collectively established purposes. In the private sphere, the entrepreneur (or rather the board of directors) is granted considerable freedom to establish the firm's objectives—which need not be justified as rational or politically chosen—powers attached to the owners' capital.

The crucial knowledge gap between a bureaucracy and the process of establishing its goal(s) is matched by another knowledge gap, between its rules and their execution. In the real world, the bureaucracy's rules are never sufficient to the employee's needs; they are never fully determining. Every situation presents unanticipated challenges because human knowledge is imperfect. Thus, the employee has a measure of discretion in applying the rules and principal-agent issues are always present. Our feeling of helplessness against a bureaucratic process is less toward the rules themselves, given that we accept the bureaucracy's goals as legitimate, than at the bureaucrat's unwillingness to use his or her discretion to our advantage, to find a “workaround” that lets us get what we want. Hence, every employee must contribute from his or her own agency if a rule-based system is to function; there must be an “informal” that complements the “formal.” As we puzzle in this direction, we see that bureaucracy is actually about social relations between boundedly rational beings—and those who think it a machinelike social system composed of perfectly rational relations miss the point of Weber's analysis. In Smith's analysis, as opposed to Weber's, the individual operative's agentic contribution is the pivotal seed to the wealth of the nation (and the firm). Weber's analysis focused on how an uncritical rationalism ultimately cripples both the political processes of goal selection and the imagination-based human processes that underpin economic growth.

Bureaucratic theorizing is about modernism and the historical impact of rationalism on our politics, organizations, families, work, and personalities. Weber's analysis was deeply double-edged—to help us identify scientific rationalism's impact and highlight the Faustian compact as we become (a) increasingly dependent on the social and economic efficiencies rationalism offers and (b) correspondingly subordinated to the goals and the means we are forced to choose if we are to reach them. Today, rationalism and rational choice liberalism are under increasing attack, both as a political philosophy and as an approach to economic analysis and social well-being. But bureaucratic theory remains extremely powerful, if only to draw attention to what leaders, politicians, entrepreneurs, and workers must do to bring scientific knowledge into productive relationship with the social world by shaping the goal-setting process and the resulting bureaucratic employees' agency. As Nobel Prize winner Herbert Simon argued, reason goes to work only after it has been supplied with a suitable set of inputs, or premises. If it is to be applied to discovering and choosing courses of action, then those inputs must include, at least, a set of “shoulds,” or values to be achieved, and a set of “it’s,” or facts about the world in which the action is to be taken.
Bureaucratic Theory

Importance

Weber contrasted bureaucratic administration against “irrational” administration on the basis of family relations or feudal or religious power. Modern capitalist society is marked by increasing rationality, and bureaucracy’s spread is just one facet of the historical trend to modernism, to prioritizing facts and the scientific attitude over “mere opinion,” whether feudally or religiously warranted. It is useful to know that Weber came to theorize rationality and bureaucracy because his doctoral thesis (submitted in 1889) examined the evolution of “private” commercial partnerships in the Middle Ages, a period when family-based administration was being supplemented by rational employment relations, leading to what is now called principal-agent problems.

His arguments led us to see rationalism as the proper way to characterize human work—mindful rational decision making or knowledge work—a view readily applicable to both public and private spheres. Even though this was more informative than characterizing work as mere “labor,” many shortcomings emerged, framed as the administrative problems or challenges that occupied later scholars and critics. We have the evident “dysfunctions of bureaucracy,” such as the Vatican’s response to charges of child molestation, the Pentagon’s initial failure to armor Humvees in Iraq, or Euro-mismanagement from Brussels. There is a political angle too—with the growth in the U.S. government’s share of gross domestic product reaching its highest ever nonwar levels and approaching those of “socialist” European countries, many see state bureaucracies as “cancers on the body politic,” an attack on individual freedom and utterly un-American.

On the other hand, the need to raise operational efficiency and reform government agencies and business organizations is taken for granted. British Petroleum’s slowness to deal with its Deep Horizon spill led to more oil-industry regulation. The Global War on Terror provoked a massive bureaucracy—the Department of Homeland Security—to eliminate the structural “silo-ing” between agencies that probably contributed to the effective execution of the 9/11 attacks. Likewise developed nations struggle to find appropriate ways of providing and regulating health care, promoting efficiency in hospital, research, and insurance operations, while controlling wasteful tendencies to overtest and overprescribe. Unraveling our love-hate relationship with bureaucracy draws attention to administrative practice at many levels; we speak of bureaucratic states and organizations or of bureaucratic work, of bureaucrats as individuals, and even of the bureaucratic personality.

But at the deeper level, bureaucracy is about an attitude, a way of looking narrowly at human affairs from the vantage point of the rational pursuit of known goals. It follows that bureaucracy—as a theory of politics, economics, business organization, or work—has come under increasing scrutiny as the modernist project itself has become more questioned, though much of the commentary is pickled with red herrings that academics should know to ignore. For instance, to point to the dehumanizing consequences of being ruled by impersonal facts rather than by “real human beings” misses how complex is the interaction of role and occupant. While the bureaucratic role occupant is defined narrowly by the rules and powers defining the role, no longer treated as a rounded human individual, the employee is also protected against the arbitrary and rule-ignoring authority of those with power in the situation. Likewise, a bureaucratic arrangement protects a policy from the arbitrary views, biases, and interpretations of those charged to implement it. It also creates a relatively objective basis for evaluating their performance. For these reasons alone, an increasing number of people, and percentage of the world’s labor force, works in contexts loosely definable as bureaucratic.

Rather than simply dismissing bureaucracy as inhuman, machinelike, or deeply flawed, we might critique it by focusing on its axioms. First, Weber’s distinction between authority and power, alluding to the role occupant’s voluntary acceptance of the role’s rules, presupposes an unquestioning “faithful” subordination of those implementing the plan to the authority of those choosing its objectives. Reinhard Bendix argued that bureaucracies leveraged ancient psycho-political dispositions such as the acceptance of the power of kings and, absent the citizens’ preparedness to bend to another, could not come into existence. We accept state bureaucracies as instrumental servants to our political process only because we accept that process. In the private sector, our capitalist legal system gives entrepreneurs a degree of kingly power that precedes rather than succeeds the formation of private firms. Thus, all bureaucracies stand on aspects of the social and legal order beyond
the organization and to argue they “dehumanize” is to overlook our evident willingness to subordinate ourselves to others within certain “legitimate” limits. It follows there are important differences between, say, Chinese and European bureaucratic phenomena. Notably, Ronald Coase argued that employees’ willingness to subordinate themselves to the powers of the entrepreneur, within certain limits, was the demarcating characteristic of the Western firm as distinct from a market. Our military, educational, and ecclesiastical bureaucracies clearly stand on quite different social bases with quite different “higher aims” to which occupants subordinate themselves.

To point to a bureaucracy’s tendencies to goal displacement to protect itself against change or elimination, to become increasingly sclerotic with the passage of time, and so on presumes the bureaucracy has somehow become an entity unto itself, escaping the hands of those who created it or are its custodians. Thus, a technical question about bureaucracy, as distinct from philosophical criticism of it as an attitude toward the world or as a political comment on the growing impact of rationalism on social thought and action, is whether bureaucratic organizations can acquire agency of their own and, like Frankenstein, come back to haunt those who thought them no more than tools to reach their own objectives. This question raises others, especially (a) about how bureaucratic organizations come into being and (b) how they become legitimate forms of social relation. While Weber saw a bureaucracy growing from the “routinization of the founders’ charisma,” we now treat bureaucracy as a socially acceptable way of planning and implementing agreed social and economic policies. So long as the objectives are clear and legitimate, we think there should be a rational evaluation and selection of the most efficient means of achieving them—the “knowledge” articulated into the bureaucracy’s division of labor and control procedures. Bureaucracy remains the world’s administrative system of choice and has yet to be seriously challenged by any other form of administration, largely because our ideas of performance and efficiency are tied up with rational evaluation of goal-oriented activity.

JC Spender

See also Analytical and Sociological Paradigms; Bounded Rationality and Satisficing (Behavioral Decision-Making Model); Dialectical Theory of Organizations; Goal-Setting Theory; Knowledge-Based View of the Firm; Organizational Structure and Design; Principles of Administration and Management Functions; Strategy and Structure

Further Readings


Business Groups

While the typical image evoked by business is that of a set of independent companies in competition with each other, in many countries large businesses come in groups. Such business groups (henceforth BGs) have various names in different geographies, ranging from Japanese keiretsu, Korean chaebols, Turkish families, and Latin American and Spanish grupos to Indian business groups. BGs have been defined by Khanna and Rivkin in 2001 as “a set of firms which, though legally independent, are bound together by a constellation of formal and informal ties and are accustomed to taking coordinated action” (pp. 47–48). Since the firms belonging to a BG could be a mix of fully independent public firms and private firms, BGs are somewhat different from conglomerates—single corporations with divisions or subsidiaries in multiple industries. The theory of business groups is concerned with explaining why BGs exist and what are the consequences for a firm of belonging to a BG. BG theory is important for management theory in general because BGs have a significant presence in many economies around the world—in most developing economies but also in
many developed economies, such as Sweden and Hong Kong. The following sections of this entry outline some of the predominant explanations for business groups and review the extant body of work in this domain.

**Fundamentals**

In a review of extant theories explaining the emergence and existence of BGs, Guillen captured three predominant views. The first, which dominates the literature, is the economists’ view, based on institutional and transaction cost theories. In this view, BGs emerge in the absence of well-functioning markets or institutions as a strategic response to factor market imperfections in developing economies. Performing the role of missing institutional intermediaries in capital, labor, and product markets, BGs fill the institutional voids by generating their own internal markets for these factors. The second view, primarily advocated by economic sociologists, is that BGs are a manifestation of different social and cultural patterns prevalent in some economies. Consequently, the organizational form of BGs is isomorphic with the social structure surrounding them. In addition to this, the social network perspective emphasizes the benefits that firms realize by virtue of being embedded in an enduring network such as a BG in terms of uncertainty reduction, contract enforcement, and opportunity identification. The third explanation for the emergence of BGs is presented by political or development economists. According to this view, some states or nations actively encourage a few entrepreneurs and facilitate them with incentives to enter new industries, thus creating business groups.

BGs serve the role of strategic networks providing member firms with access to information, knowledge, resources, markets, and technologies. They also provide superior access to the political power structure facilitating BG firms with a richer pool of opportunities. Studies show that BGs also have a positive impact on firm innovation in emerging economies and facilitate a firm’s expansion into new geographic markets. In addition to all these benefits, BGs are known to confer some costs on affiliated firms. Most BGs are also characterized by pyramidal ownership structures in which one or more family firms control a set of firms, which in turn control a set of more firms, and so on. Hence, BG firms tend to suffer from conflicts of interests between controlling (typically, family) and minority shareholders. Some BGs have been shown to engage in “tunneling,” or moving profits from firms in which they have low cash flow rights to those in which they have higher cash flow rights. There is no firm agreement on whether the net benefit of belonging to a BG is positive or negative.

Recent work on BGs examines the future prospects of business groups, especially in the changing institutional context brought about by a wave of deregulation in the emerging economies. Because BGs essentially provide internal substitutes within the group for weak external institutions, it is argued that BG benefits should be larger in countries with weak economic institutions than in countries with strong institutions and grow smaller within countries with weak economic institutions as the quality of these institutions improves. While some studies have reported evidence consistent with this argument, there is also some contrary evidence, thus hinting at the value addition potential of BGs that goes beyond substitution of institutional intermediaries. In addition, some research is now focusing on how BGs themselves may be evolving over time in response to changes in their environment and also on unearthing the significant heterogeneity that exists among BGs in terms of their differential resource endowments, organizational structures, and interorganizational ties.

The theories of business groups inform managers in the following ways. Managers of transnational corporations would understand some of the unique advantages as well as disadvantages that firms derive from their affiliation with BGs and learn to compete with them better. The same knowledge could help business group owners and managers of BG firms leverage their unique strengths and devise ways to overcome some of the limitations arising from this organizational form.

**See also** Business Policy and Corporate Strategy; Competitive Advantage; Institutional Theory; Resource-Based View of the Firm

**Further Readings**

BUSINESS POLICY AND CORPORATE STRATEGY

Business policy refers to the roles and responsibilities of top-level management, the significant issues affecting company-wide performance, and the decisions affecting companies in the long run. Corporate strategy is the strategy developed and implemented to the goals set by the company’s business policy. As a company-wide strategy, corporate strategy is concerned primarily with answering the question, What set of businesses should the company be in? It should be distinguished from business strategy, which focuses on answering the question of how to build a sustainable competitive advantage in specific business or market. More specifically, corporate strategy can be defined as the way a company creates value through the configuration and coordination of its multibusiness activities. As such, the subject of corporate strategy is the diversified multibusiness corporation. This entry first describes the content of a theory of corporate strategy, then presents the evolution of corporate strategy, and concludes with a discussion of the importance of a theory of corporate strategy.

Fundamentals

From an academic point of view (as opposed to a more managerial or practical point of view), the main objective of a theory of corporate strategy is to understand why such multibusiness firms exist and what is the relationship between diversification and performance. The question of why multibusiness firms exist is particularly important because the neoclassic theory of the firm assumes the sole existence of single-business firms operating in near-perfect markets and competitive equilibrium. The existence of profitable multibusiness firms in the real-world challenges this assumption. Therefore, the reasons for the existence of multibusiness firms require specific theoretical developments. It is also critical for a theory of corporate strategy to explain how the multibusiness firms create value at the corporate level that cannot be created by neoclassic single-business firms or shareholders investing in single-business firms. Such a theory should also explain the roles of corporate headquarters in managing multiple businesses and corporate resources. Thus, corporate strategy has implications for corporate governance and the control of the work of managers. A considerable body of theory has evolved within the disciplines of strategy, economics, finance, marketing, organization theory, and international business that have salient implications for the management of corporate strategies.

Academic interest in developing a theory of corporate strategy has been continuously growing since the rise of multibusiness firms at the beginning of the 20th century. If multibusiness firms were almost unknown in 1900, they are today the dominant type of organizations for the conduct of business activities. In the United States, about 60% of economic output is undertaken by multibusiness firms. The percentage is similar in Western
Europe, while specific forms of multibusiness firms, such as *keiretsu* in Japan and *chaebols* in Korea, are also ubiquitous in other parts of the world. To understand the role of these multibusiness firms and develop a theory of corporate strategy, academic research has emphasized three sets of issues: First, the determinant of firm scope: Why is it that some firms are highly specialized in what they do, while others embrace a wide range of products, markets, and activities? Second, what is the link between scope and performance? Third, what are the implications of this link for the management of multibusiness firms in terms of organizational structure, management systems, and leadership?

The most comprehensive framework presenting the key elements of a theory of corporate strategy has been outlined by David Collis and Cynthia Montgomery. They argue that multibusiness firms exist because they create corporate advantage by aligning four elements: a corporate *vision* about the goals and objectives of the firm, which is then implemented based on the firm's stock of *resources* and portfolio of *businesses*. In addition, the implementation of the corporate vision and its alignment with the firm's resources and businesses should be configured and coordinated through a set of corporate structure, systems, and processes defining the roles of the *corporate headquarters*. When these four elements—vision, resources, business, and roles of the headquarters—fit together, shareholder value is created that cannot be duplicated by financial investors on their own, providing a corporate advantage to the multibusiness firm.

In this framework, nicknamed the *corporate strategy triangle* by the authors, corporate vision refers to the definition of the domain of the firm's activities and is primarily concerned with establishing the boundaries of the firm. The corporate vision should address the question: What set of businesses should we be in? The vision should also outline a set of corporate goals and objectives pertaining to the choice of the firm's main corporate value-creating mechanisms. Michael Porter proposed a classification of four generic mechanisms—sharing resources between businesses, transferring core competences across businesses, creating an efficient internal capital market through portfolio management, restructuring—that should provide the multibusiness firm with a corporate advantage.

Resources constitute the most critical building blocks of corporate strategy, because they determine not what a firm wants to do but what it can do. This is, resources determine in which businesses the firm can have sustainable competitive advantage. By sharing and transferring resources across related business, the firm can achieve synergies and economies of scope, sources of corporate advantage. Moreover, the presence of excess resources that are mobile and fungible provides an incentive for the firm's diversification, as well as a direction for its diversification strategy (which businesses can we enter?).

Businesses refer to the industries or markets in which the firm operates. The composition of the firm's portfolio of businesses is critical for the implementation of the corporate vision and the long-term success of its corporate strategy. The firm's business portfolio influences the extent to which it can share resources across businesses or transfer skills and competencies from one business to the other, as these value-creating mechanisms require businesses to be related. Alternatively, the firm could invest in unrelated businesses to spread risk or move away from declining industries. In addition, the realization of an efficient internal capital market and the implementation of a restructuring strategy require businesses to be somewhat unrelated to lead to a corporate advantage.

To implement a corporate strategy or corporate value creation mechanism, the firm's headquarters plays an important role in coordinating and configuring the activities of the businesses. The corporate headquarters influences business units' decisions through the firm's organizational structure, systems, and processes. The extent of the involvement of the corporate headquarters in the activities of its business units should depend, however, on the corporate vision, the resources the firm possesses, and the level of relatedness between its businesses. This is what Michael Goold and colleagues call a firm's "parenting style." The headquarters should minimize its involvement and delegate most operational decisions to business units, making them as independent as possible to spread risk and minimize overhead costs; alternatively, it can play an important role in the business units' decision-making process to increase coordination across business units in order to force collaboration to achieve a corporate advantage through synergies.
The theory of corporate strategy does not suggest that there should be a single best corporate strategy to create a corporate advantage. Quite the opposite, there exist various strategies that are equally profitable despite the fact that they are based on various combinations of the four elements of the corporate strategy triangle. Several theoretical perspectives have been used to justify the value creation potential of these different combinations: industrial organization theory, transaction cost theory, agency theory, the dominant logic, the resource-based view, strategic contingency and institutional theories, and real option theory. These theoretical perspectives provide the building blocks necessary to explain connections between the elements of the corporate strategy triangle.

From a theoretical point of view, multibusiness firms can exist for many reasons. Principally, a diversification strategy helps increase the firm’s corporate value by improving its overall performance, through economies of scope or increased revenues, which is why single-business firms seek to diversify their activities into related and unrelated businesses. Some firms also diversify to gain market power relative to competitors, often through vertical integration or mutual forbearance. However, other reasons for a firm to diversify its activities may have nothing to do with increasing the firm’s value. Diversification could have neutral effects on a firm’s corporate advantage, increase coordination and control costs, or even reduce a firm’s revenues and shareholder value. These reasons pertain to diversification undertaken to match and thereby neutralize a competitor’s market power, as well as to diversification to expand the firm’s portfolio of businesses to increase managerial compensation or reduce managerial employment risk, leading to agency problems. Incentives to diversify come from both the external environment and a firm’s internal environment. External incentives include antitrust regulations and tax laws, whereas internal incentives include poor performance, uncertain future cash flows, and the pursuit of synergy and reduced risk for the firm. Although a firm may have incentives to diversify, it also must possess the resources and capabilities to create corporate value through diversification.

**Evolution**

More than 50 years ago, corporate strategy was defined by Kenneth Andrews (1971) as “the pattern of objectives, purposes, or goals, stated in such a way as to define what business the company is or is to be in and the kind of company it is or is to be” (p. 28). Following this definition, he argued that the choice of the business(es) the company is or is to be should be based on the twin appraisals of the company external and internal environments. An internal appraisal of strengths and weaknesses of the company should lead to the identification of distinctive competencies, and an external appraisal of the threats and opportunities from the external environment should lead to the identification of potential success factors. However, the corporate strategy of multibusiness firms has undergone enormous change in the last 50 years, affecting both their scope and their organizational structure. The merger and acquisition (M&As) booms in the 1960s and 1980s extended the scope of multibusiness firms, often to the point where corporate value was destroyed by excessive coordination costs and unprofitable use of free cash flows. An emphasis on profitability and the creation of shareholder value became prevalent in response to the economic downturns and interest rate spikes of 1974 to 1976, 1980 to 1982, and 1989 to 1991, which exposed the inadequate profitability of many large, diversified firms. Increased pressure from shareholders and financial markets, including a new breed of institutional investors (e.g., pension funds), led to the rise of shareholder activism and a stricter control of managers’ diversification activities. In the 1990s, capital market pressures forced many diversified firms to reassess their business portfolios, the involvement of their headquarters, and the way they coordinated and configured their multimarket activities. For example, a swath of CEO firings in the early 1990s highlighted the increasing power of corporate board members. An even bigger threat to incumbent management was the use of debt financing by corporate raiders and leveraged buyout (LBO) associations in their effort to acquire and then restructure underperforming firms. The lesson to other poorly performing multibusiness firms was clear: Restructure voluntarily and de-diversify or have it done to you through a hostile takeover. As a result of this shareholder pressure, corporate managers increasingly focused their attention on the stock market valuation of their firm. The dominant trends of the last two decades of the 20th century were downsizing and refocusing. Large diversified firms reduced both their product scope by refocusing on their core businesses
and their vertical scope, through outsourcing. Reductions in vertical integration through outsourcing involved not just greater vertical specialization but also a redefinition of vertical relationships. The new vertical partnerships typically involve long-term relational alliances that avoid most of the bureaucracy and administrative inflexibility associated with vertical integration. The narrowed corporate scope also has been apparent in firms’ retreat from product diversification. More recently, new collaborative structures, such as joint ventures, strategic alliances, and franchising, have become more popular.

Mirroring these changes in firms’ corporate strategy, the theoretical lenses and normative prescriptions for corporate strategy theory have evolved over time. From an emphasis on financial performance in the 1960s, to managing the corporation as a portfolio of strategic business units and searching for synergy between them in the 1970s, to the emphasis on free cash flow and shareholder value in the 1980s, to the refocusing on core competencies in the 1990s, and finally, to the industry restructuring in the beginning of the 21st century, corporate strategy theory has continued to change and become more sophisticated. In the beginning of the 21st century, the development and exploitation of organizational capability has become a central theme in strategy research. The recognition has dawned that a strategy of exploiting links (i.e., relatedness) across different business sectors does not necessarily require diversification and that a wide variety of strategic alliances and other synergistic relationships might exploit economies of scope across independent firms.

**Importance**

The theory of corporate strategy does not have only enthusiastic supporters; skeptics have questioned its importance and relevance, arguing that corporate strategy does not matter. This view largely stems from empirical results derived from a series of early variance decomposition studies that identified negligible corporate effects associated with profitability differences between firms. However, more recently, scholars have reassessed with more sophisticated techniques the relative importance of industry, business, and corporate factors in determining profitability differences between firms and found that corporate strategy accounts for a significant component of performance differences that in some cases approach 25%. These recent results demonstrate that corporate strategy does matter.

Another critic of the theory of corporate strategy is its overreliance on economic theories, such as agency and transaction costs theories, and shareholder value as its ultimate yardstick to measure the success of corporate strategy. These critics argue that these economic theories rely on a key, but controversial, assumption of managerial opportunism. For example, these economic theories assume that managers are often opportunistic and motivated only by self-interest, but this assumption has been subject to frequent challenges. Some scholars hold that most managers actually are highly responsible stewards of the assets they control and do not behave opportunistically. With this alternative view of managers’ motives, they propose a stewardship theory, according to which shareholders should install more flexible corporate governance systems to avoid frustrating their benevolent managers with unnecessary and costly bureaucratic controls. The assumption of managerial opportunism also has important implications in the way firms interact with their strategic partners and how headquarters control business unit managers.

By focusing on shareholder value, corporate strategy theory also takes a narrow view on corporate responsibilities. Stakeholder theory broadens this view by arguing that firms and their managers are responsible not only to their shareholders but to a larger group of stakeholders. However, when multiple stakeholders’ interests represent ends to be pursued, managers must make corporate strategic decisions that balance these multiple goals rather than just maximize shareholder value. The stakeholder theory of corporate strategy, in turn, proposes that managers’ goals should be developed in collaboration with a diverse group of internal and external stakeholders, even if they support potentially conflicting claims. However, if the number of stakeholders to whom firms and managers are accountable increases, the scope of a firm’s corporate responsibilities also increases. It has been argued that not one but four types of corporate social responsibilities exist: economic, legal, ethical, and philanthropic. Multibusiness firms’ managers’ strategic choices therefore must reflect a compromise between various considerations—of which shareholder value is just one.

These recent developments still need to be incorporated into a comprehensive theory of corporate
strategy. Such a theory should start to relax some of the main assumptions of the economic theory of corporate strategy, such as managerial opportunism and shareholder value maximization. Mitigating the idea that every manager is opportunistic would require a comprehensive theory of corporate strategy to build on the developments of stewardship theory. Relaxing the assumption that the ultimate goal of a corporate strategy and managers’ sole responsibility is the maximization of shareholder value would require a comprehensive theory of corporate strategy to broaden its perspective to accommodate multiple stakeholders. Finally, expanding firms’ corporate responsibilities from making a profit to encompass broader economic, social, and environmental responsibilities would also require new theoretical developments for a theory of corporate strategy.

To summarize, this entry has presented the theory of corporate strategy and its key components. It establishes that corporate strategy encompasses decisions, guided by a vision and more specific goals and objectives, about the scope of the firms in terms of their businesses, resources, and the leveraging of those resources across businesses as well as the role of corporate headquarters for the organizational structure, systems, and processes. There is no single best corporate-level strategy; rather, many value-creating corporate strategies can be developed based on different configurations of the various components of corporate strategy. Firms’ corporate strategies and their theoretical rationales have evolved over time in response to the pressures of both the firm’s external and internal environments. Diversification is one of the main elements of corporate strategy, such that a firm’s level of diversification influences its performance and that corporate strategy matters. However, a theory of corporate strategy encompasses more than the link between diversification and performance. A theory of corporate strategy also incorporates or influences a theory of the growth of the firm, a theory of the organizational structure of the firm, a theory of multipoint competition, and a theory of corporate governance.

Olivier Furrer

See also BCG Growth-Share Matrix; Business Groups; Diversification Strategy; Matrix Structure; Resource-Based View of the Firm; Strategy and Structure; Transaction Cost Theory

Further Readings

BUSINESS PROCESS REENGINEERING

In his seminal 1990 Harvard Business Review article, Michael Hammer challenged managers to do things differently: “Instead of embedding outdated processes in silicon and software, we should obliterate them and start over. We should ‘reengineer’ our businesses; use the power of modern information technology to radically redesign our business processes in order to achieve dramatic improvements in their performance” (p. 104). Business process reengineering differs from other change initiatives, such as quality or process improvement, because of the radical and holistic nature of the intended change. Subsequently, in the 1993 book titled Reengineering
the Corporation, Michael Hammer and James Champy defined reengineering as “the fundamental rethinking and radical redesign of business processes to achieve dramatic improvements in critical contemporary measures of performance such as cost, quality, service and speed.” This entry provides an overview of the fundamentals, evolution, and importance of business process reengineering.

**Fundamentals**

There are important differences between quality or process improvement initiatives and reengineering or process innovation initiatives.

Process improvement initiatives are more limited in scale and scope; the magnitude of change associated with process innovation or reengineering is more expansive and therefore takes more time. The starting point for process improvement is typically the existing process or function, for process innovation or reengineering is often a clean slate, and the initiative is cross-functional. Finally, whereas process improvement initiatives may be initiated, bottom-up, given the broad scope of change associated with process innovation or reengineering, senior management sponsorship is required.

At the core of business process reengineering are three principles. First, managers should adopt a process view of the business. Second, managers should understand the conditions that enable or inhibit radical process redesign. Third, once the process redesign is complete, managers must be conscious of the tactics and levers they use to manage change. The first two are discussed in this section because they represent fundamental ways of thinking and understanding management reality. The third is more action oriented and underlies the discussion of managerial interventions discussed in the Importance section.

**A Process View of the Business**

Business process reengineering challenges managers to focus on business processes. A business process typically cuts across traditional functional areas within an organization; it is a horizontal view of the business as contrasted with a more hierarchical view. In his 1993 book, Davenport stated, “A process perspective implies a strong emphasis on how work is done within an organization in contrast to a product focus emphasis on what” (p. 8). A business process is a set of activities that create value for the customer; as such, it typically starts and ends with the customer, and it is something measurable.

Order fulfillment is an example of a process that takes place in many organizations. Order fulfillment involves many traditional departments within the firm, external partners, and the customer. A reengineering initiative focused on an order fulfillment process would involve the redesign of the process where the process is enabled by information technology. In a 1995 Harvard Business School Note, Richard Nolan put forth a strategic reengineering “equation” where Radical Change was seen as equaling New Organization and IT.

The process of making an airline reservation is an example of an order fulfillment process. In the 1990s, airline customers called an airline’s reservation desk or a travel agent to make a reservation. A decade later, most customers make reservations on their own, by going to an airline’s website or to a travel website. The redesign of this process reduced the need for travel agents and reservation agents who were employed by the airlines, which resulted in significant cost savings to airlines and their customers. The airline reservation example also highlights a shift to self-service, a philosophy whose roots are a by-product of the reengineering era.

In the late 1980s, Otis Elevator leveraged IT to reengineer the process used by its customers to request service of elevators after normal business hours. Prior to the business process reengineering initiative, a customer who experienced a problem with an elevator after hours would call an answering service, which was typically a person working from home, to report an out-of-service elevator. After the business process reengineering initiative, dubbed Otisline, the customer would call a regional or national call center and reach an Otis employee who could troubleshoot and, if necessary, dispatch a technician. With Otisline, the company found they were able to be more responsive to customers and reduce the downtime and “stuck in elevator” situations, thereby increasing customer satisfaction. Later, Otis was able to install sensors in elevators, which sent a signal to the call center. Often, if an elevator was having trouble, technicians could send a software update to the elevator or dispatch a technician before the customer even knew there was a problem. By combining information technology (IT) and organization redesign, Otis Elevator was able to
reengineer its customer service process and achieve dramatic results.

It is useful here to highlight several key elements in Michael Hammer and James Champy’s definition of reengineering as noted above: “the fundamental rethinking and radical redesign of business processes to achieve dramatic improvements in critical contemporary measures of performance such as cost quality, service and speed [italics added].” The first step in any reengineering initiative is to engage in a process that will allow you to envision the future and how to redesign that process. When coaching managers on design projects, reengineering consultants highlight that a team can take one of two approaches: design with a clean slate or design for implementation.

A team charged with redesigning a process can design with a “clean slate”—that is, design as if you were starting from scratch and have no organizational or cultural constraints. Clean-slate designs are often quite radical and, as Tom Davenport noted in his 1993 book Process Innovation, may include ambitious plans for new technologies, new skills, and new organizational structures. A clean-slate design will typically result in the most radical design, which can lead to the most radical results.

On the other hand, a team can “design for implementation”; that is, the team can consider the various organizational constraints during its design process. There are a number of typical implementation constraints, including funding, union obligations, culture, organizational structure, and IT systems. A design for implementation approach assumes the existing state and may reflect the constraints that leadership cannot or will not remove. Such a design will be less radical, but it may be easier to implement the change because the less radical design does not disrupt the existing organization culture and structure.

In their 1995 Harvard Business School Note, Donna Stoddard and Sirka Jarvenpaa reported that “Reengineering Design Is Radical; Reengineering Change Is Not!” They argued that organizations that figure out how to combine the two approaches—that is, design for implementation to get started but move toward more radical change—are often the ones who realize the most dramatic results, over time, because they are able to move forward with the change initiative while staying focused on the end goal, the radical design.

**Conditions That Can Enable or Inhibit Reengineering**

To enable the success of a reengineering initiative, managers must understand the conditions that enable or inhibit radical process redesign. Four factors that managers should consider when embarking on process redesign are the process size, the geographic dispersion of process owners and enablers, recent business performance, and the organization’s financial resources. Some of the factors are obvious; small projects are easier to manage than large projects, and one site is easier to manage than multiple sites.

The other two factors may not be so obvious. Recent business performance is a factor that can enable or inhibit a redesign effort. On the one hand, poor performance may create a burning platform and thereby motivate organization members to implement the redesigned business process; on the other hand, it may be difficult to get organization members to embark on a major change initiative if things are going well.

The financial resources of the organization are important to consider when embarking on a major process redesign because it takes time to rethink a process, and time is money. Further, it will take organizational resources to implement the new design since organizational members may have to be retrained, new IT systems may have to be developed, and there may be some period during which people are less productive.

A new IT application or capability may be the trigger for a reengineering initiative. For example, in the 1990s, the proliferation of IT capabilities enabled the self-service phenomenon now commonplace for order entry, banking, and grocery store checkout. Retailers and other corporations benefit from self-service because they need fewer employees per order. Customers like self-service because they can transact business at their discretion—often at any time and from any place.

Before embarking on reengineering, managers must understand the conditions that will enable or inhibit radical process redesign. With appropriate planning, they can steer the project toward success.

**Evolution**

Business process reengineering was a very popular management initiative in the 1990s. A number of articles appeared in the popular press and
management journals highlighting the promises of reengineering. For example, in 1990, Hammer published his seminal article, “Reengineering Work: Don’t Automate, Obliterate” in which he proffered the potential for reengineering to revolutionize the way that companies did work.

In a 1993 article in *Fortune*, Tom Stewart acknowledged the popularity of business process reengineering and referred to reengineering as a fad. He quoted an executive, “If you want to get something funded around here—anything even a new chair for your office—call it reengineering on your request for expenditure.” Stewart also stated, that whereas many had tried, few had realized the business process reengineering’s promised dramatic improvements; he noted that 50% to 70% of business process reengineering efforts failed to achieve their goals.

In contrast, in his book, Davenport highlighted a number of successful reengineering initiatives. For example, Siemens Rolm reported that because of business process reengineering its order fulfillment processes, its order-to-installation-completion time improved by 60% and its field inventory was reduced by 69%; Cigna Reinsurance reduced operating costs by 40%; and CIGNA reported savings of more than $100 million.

Today, as 21st-century managers look in their rearview mirrors, many pundits will argue that we lost the business process reengineering revolution. Whether one agrees with the pundits or not, most would agree that Michael Hammer, James Champy, Thomas Davenport, and other gurus who espoused the possibilities of business process reengineering charted a course for a new way of thinking about business. The business process reengineering revolution helped managers understand how information technology, when married with organizational change, could revolutionize the way critical businesses processes were accomplished.

**Importance**

One of the greatest myths of business process reengineering was that it would lead to radical change quickly, or “Big Change Fast.” However, implementing change in organizations is hard. As Stoddard and Jarvenpaa argued in their 1993 note, BPR’s “Achilles heel” is change management. It takes time to change organization-reporting relationships and culture, to retrain employees, and to develop and implement new IT systems—hence, the longer the time horizon, for the radical change implementation, the better.

When describing the reengineering implementation challenges in their 1995 Harvard Business School note, Stoddard and Jarvenpaa stressed that management must assess the organization and determine the appropriate path for reengineering implementation. Business process reengineering has long been associated with the revolutionary change approach that may result in downsizing, cost cutting, and other abrupt changes that cause significant stress for organizational members. The advantage of the revolutionary approach is that change happens quickly. The disadvantage is that the path may unduly increase project risk. The evolutionary path that seeks the involvement and buy-in of organization members moves at a pace comfortable for employees and is a kinder and gentler approach that promotes change from within the organization. With an evolutionary path, the pace and nature of change is adapted to be comfortable for the current personnel of the organization.

Managers who are leading business process reengineering initiatives must select an implementation approach and implementation tactics that will allow them to realize the intended changes. According to Stoddard and Jarvenpaa, most good managers loathe the revolutionary path for implementation because that approach challenges all that we know about managing and motivating people. “The revolutionary path excludes most of the current organizational expertise, promotes secrecy, supremacy of those selected to create the future vision, unyielding milestones and a simultaneous change of work roles, organization structure and technology” (p. 2). Whereas an evolutionary change approach is deemed to be better for the organization, the major disadvantage of the evolutionary approach is that it takes a long time to accomplish the vision, which must be kept alive and refreshed as market conditions change.

In conclusion, radical process redesign is at the heart of business process reengineering. Managers initiating a business process reengineering initiative must adopt a process view of the business, understand the conditions that enable or inhibit radical process redesign, and select the appropriate change tactics to enable the implementation of the radically redesigned process.

*Donna Stoddard*
See also Continuous and Routinized Change; Kaizen and Continuous Improvement; Strategies for Change; Total Quality Management

BVSR Theory of Human Creativity

BVSR theory maintains that creativity depends on the two-step process of blind variation and selective retention. If valid, then management theories concerned with invention and innovation must directly incorporate BVSR into their concepts and arguments. In this entry, the original form of the theory is first described, and then subsequent developments in the theory are briefly discussed.

Fundamentals

In 1960, Donald T. Campbell proposed his theory that creativity depended on the two-step process of blind variation and selective retention, or BVSR. Significantly, he believed that BVSR applied to all creative thought as well as to “other knowledge processes,” including scientific discovery. Campbell’s theoretical presentation was neither highly formal nor intimately based on empirical research, but rather, he mainly documented the operation of BVSR by extensive quotations from past thinkers, such as the philosophers Alexander Bain and Paul Souriau, the physicist Ernst Mach, and the mathematician Henri Poincaré. Despite the fact that BVSR is often identified as “Darwinian,” Campbell did not predicate the theory on any analogy with Darwin’s theory of biological evolution. Campbell did not elaborate much on BVSR in his subsequent publications, except to subsume it under a much more extensive evolutionary epistemology. Nevertheless, some researchers took BVSR as the basis for their own theoretical and empirical work. In their hands, BVSR has acquired some claim to providing the most comprehensive and precise theory of human creativity. The comprehensiveness is most apparent in BVSR’s capacity to integrate a diversity of phenomena, including the personality traits and developmental experiences of individual creators as well as the organizational and sociocultural contexts in which those individuals create. BVSR’s precision is especially conspicuous in combinatorial models of the creative process that have generated predictions that have been subjected to empirical tests.

According to Campbell, creativity begins with the generation of “thought trials,” which are then either rejected or selected and retained. Because the ideational variants are not generated with foreknowledge of the outcome, he deemed them blind, albeit sometimes in later writings he would use alternative designations, such as unjustified. The important point is that creators or discoverers often cannot know in advance whether an idea will work until they first generate and test the idea. On the contrary, if the individual can confidently predict whether the idea will be selected or rejected prior to testing, then the idea should signify nothing truly new. Instead, it would most likely represent routine, reproductive, or algorithmic thinking. Campbell then made some effort to describe some of the factors that might enhance BVSR’s effectiveness. For example, he pointed out the advantages of what now would be termed multicultural experiences. Persons exposed to two or more cultures would be more likely to transcend cultural constraints on thinking.

Later research has provided both empirical and theoretical support for the BVSR theory. On the empirical side, studies have shown that individual creators possess characteristics that would make them more capable of “thinking outside the box”
imposed by expertise, such as the ability or willingness to engage in defocused attention. Likewise, highly creative problem-solving groups tend to consist of members who are unusually heterogeneous with respect to gender, ethnicity, age, and training. This diversity of perspectives increases the odds that the group will avoid imposing unnecessary constraints on the search for the optimal solution. On the theoretical side, BVSR theory has been expanded to encompass a wide range of creative processes and procedures, even including algorithmic methods and combinatorial models. An important aspect of this theoretical expansion has been recent work refining the definition of what constitutes a blind variation, a key term that Campbell had only loosely defined.

The BVSR theory of creativity stimulated considerable controversy over the first 50 years of its existence. The most common criticisms are that (a) it is based on an unjustified analogy with Darwin's theory of evolution by natural selection, (b) it presumes that the creative process is completely random, (c) it denies the important role that domain-specific expertise plays in the creative process, and (d) it minimizes the place of personal volition in creativity. BVSR advocates argue that all four criticisms represent misunderstandings of what the theory actually claims regarding the creative process. BVSR creativity can entail systematic rather than blind methods, take advantage of acquired expertise, and engage conspicuous goal-oriented behavior. With respect to the first criticism, a preliminary version of the theory was actually published in 1855, 4 years prior to the publication of Darwin's theory.

Although BVSR is claimed to provide the best basis for a comprehensive and precise theory of creativity, it remains to be seen whether it will do so. The jury is also still out about the role of BVSR in groups and organizations. For instance, although brainstorming can be seen as involving BVSR at the group level, the efficacy of brainstorming is itself debatable. In addition, it is still unclear exactly how to create an organizational climate that encourages BVSR in the most cost-effective manner.

Dean Keith Simonton

See also Architectural Innovation; Brainstorming; Componential Theory of Creativity; Dual-Core Model of Organizational Innovation; Innovation Diffusion; Innovation Speed; Investment Theory of Creativity; Open Innovation; Patterns of Innovation; Profiting From Innovation; Stages of Innovation

Further Readings


Careers are a central construct in the management field, as they reside at the crossroads of individual and organization, of psychology and strategy. In the mid-1950s, at a time when career development theory was dominated by differential psychology and trait-and-factor theory, two important advances were made that would fundamentally change the face of career theory. Career stage theories started to emerge (most notably, Donald Super’s career development theory, which laid the foundations for his life-span, life-space theory later on), as well as theories that went beyond career counseling’s traditional focus on person-job fit to look at what people actually want from their careers (most notably, Edgar Schein’s career anchors theory). Up to that point, the careers literature had been concerned mostly with the prediction of occupational choice and success based on ability and interest tests. Vocational counseling was portrayed as a rather static process that matched people to the “right” occupation. Taken together, career stage and career anchors theories contributed to the understanding of careers by introducing a focus on the dynamics underlying the formation of people’s vocational self-concept over time. What follows in the entry is first a bit more background on career stage and career anchors theories and highlighting of central concepts and assumptions in both theories. Then, a discussion shows how the concepts have impacted career research and practice over the years. At the end of this entry are listed some recommendations for further reading.

**Fundamentals**

**Career Stages**

Although Super acknowledged the merits of trait-and-factor theory and the matching model to vocational guidance, he felt that they were too static to capture the complex dynamics of adult career development over time. In view of that, he developed a theory of career that conceptualized career development as a lifelong process, rather than a once-in-a-lifetime decision. He identified five consecutive developmental stages, each characterized by its own career concerns:

1. **Growth (age 4 to 13).** In the growth stage, a child develops his or her capacities, attitudes, and interests. As the child grows older, he or she is confronted with the following career development tasks: becoming concerned about the future, increasing personal control over one’s own life, convincing oneself to achieve in school and at work, and acquiring competent work habits and attitudes.

2. **Exploration (age 14 to 24).** The exploration stage demarcates the transition into young adulthood, in which self-reflection and pursuing (higher) education are central features. Crystallization, specification, and implementation of career preferences are developmental tasks that are typically tackled at this point.

3. **Establishment (age 24 to 44).** In the establishment stage, the young adult enters his
or her first job and slowly but surely establishes his or her place in the world of work. Career development tasks in this stage involve stabilizing or securing a place in an organization, consolidating one’s position, and advancing up the career ladder.

4. Maintenance (age 45 to 65). The maintenance stage is characterized by the aging worker’s tendency to hold on to his or her current position, while simultaneously updating work-related skills so as to stay abreast of developments in the field. Career development tasks include holding on to what has been achieved, updating competencies, and finding innovative ways of performing one’s job.

5. Disengagement (over 65). Around the age of 65, the disengagement stage sets in. In this stage, most people make active plans to retire. A first developmental task they go through is deceleration (in terms of workload and career centrality in life), followed by retirement planning, and, finally, retirement living.

Traditional linear career stage models, such as the above, make sense mostly within traditional career contexts, such as large bureaucratic organizations. Although many organizations worldwide are abandoning this type of structure—combined with the fact that an increasing number of individuals are enactment their careers across organizational boundaries—this type of stage theory has continued to dominate the literature on careers. Nonetheless, a few recent developments have taken changes in the career environment into account more explicitly. Tim Hall and Philip Mirvis’s model of contemporary career development, for instance, centers around ministages of 2 or 3 years containing exploration, trial, mastery, and exit attitudes and behaviors, which individuals “recycle” through across functional, organizational, and other boundaries. Lisa Mainiero and Sherry Sullivan, from their side, developed a “kaleidoscope” model of career development, in which they talk about facets of career that are continually adjusted to best match a person’s life situation at any given time, independently of definitions of career success dictated by society.

### Career Anchors

Schein’s career anchors theory supplements Super’s career development theory in the sense that it focuses on the dynamics of people’s internal career throughout their adult lives. Schein defined career anchors as patterns of self-perceived competence, motivators, and values that guide and constrain career choice:

1. **Autonomy/independence.** Flexibility in terms of when and how to work is seen as of central importance. Organizational rules and restrictions are perceived as bothersome, to the extent that promotion opportunities might be turned down so as to preserve total independence.

2. **Security/stability.** Employment and financial security are main concerns. The focus is less on job content and reaching a high position. Achieving some sort of job tenure is the ultimate goal; compliance is an often-used strategy to achieve it.

3. **Technical/functional competence.** The highest value is placed on the opportunity to apply one’s skills and develop them to an ever-higher level. A sense of identity is derived from one’s expertise, and being challenged in that area leads to profound satisfaction. Managing others is not seen as inherently interesting, unless it involves project management in the area of expertise.

4. **General managerial competence.** Opportunities to climb the ladder to a position of power are sought after. There is a strong desire to be held accountable for organizational outcomes, and generalist jobs are preferred.

5. **Entrepreneurial creativity.** An important goal is to found one’s own company or enterprise while taking risks and overcoming challenges and obstacles. Demonstrating one’s abilities (e.g., through financial success) and being recognized for what one has achieved single-handedly are critical motivators.

6. **Sense of service/dedication to a cause.** Important values center around doing work that makes the world a better place (e.g., solving environmental problems, helping people in need, curing
Career Stages and Anchors

Schein was adamant about two points. First, that every person, in essence, has only one career anchor—which lies at the heart of all career decisions the individual will make throughout his or her adult life. Second, that career anchors are shaped by early career experiences and that therefore people who have not had much work experience (i.e., young graduates) do not (yet) have a career anchor. Schein argued that a career anchor is formed when a person's self-image prior to entering the job market (i.e., in the growth stage) is confronted with real-life working experiences (i.e., in the exploration stage), causing crystallization of the vocational self-concept. Once formed, however (i.e., from the establishment stage onward) Schein believed that a person's career anchor would remain stable throughout the further course of his or her life, save in cases where a person's self-image is altered radically by the encounter of unexpected life events or career traumas.

**Importance**

Research

Both career stages and career anchors theories have been the subject of dozens of empirical studies across the globe. Although, generally speaking, their main assumptions have held over the years, some gaps remain. As for career stage theory, the idea of recycling through career stages, however interesting, has rarely been the object of empirical research. In addition, most studies that have aimed to test the assumptions of Super's career development theory have relied mostly on chronological age and organization, career, or position tenure as indicators of career stage, which goes directly against the idea of career stages being characterized by the level of exploration, establishment, maintenance, and disengagement concerns. Combined with the observation that nearly all career stage studies have been cross-sectional, one might conclude that this this type of approach is measuring types rather than stages. Although recoding continuous data about career concerns into stages may be useful in a counseling setting where an individual's scores are explored in-depth and synergistically, in a research context, this approach is likely to result in oversimplification and loss of data richness. Following Super's notion of minicycles and Hall and Mirvis's idea of overlapping career learning cycles, it may make more sense to study respondents' career concerns using continuous and non-disjoint data formats, while controlling for age and tenure indicators. Career anchors theory was practically unchallenged for 25 years when Daniel Feldman and Mark Bolino published their critique in 1996. Criticism of the career anchors concept has been concerned mostly with its factor structure, as well as with the assumptions of each person having one key career anchor, and its stability over time. Most empirical studies testing the alternative assumptions suggested by Feldman and Bolino, however, have found that Schein's factor structure, although not always optimal, remains the best fit. Evidence was found for some individuals having multiple career anchors. As for the assumption of stability over time, there is a significant need and opportunity for further research adopting longitudinal designs.

Practice

Although the career stage and anchors literatures have primarily spelled out implications for individuals—focusing on individual-level outcomes, such as effective career decision making, career satisfaction, and self-esteem—without a doubt, their impact on management practice has been pervasive. The career anchors literature has
taught managers around the world that people with different career anchors desire different kinds of work settings, are motivated by different kinds of incentives and rewards, and are vulnerable to different kinds of career mismanagement. In doing so, it has directly contributed to the rise of realistic job previews (RJP) as a contemporary selection paradigm replacing methods that were focused mainly on “seducing” employees to accept job offers. In the later part of his career, Schein commercialized his knowledge about career anchors in a number of best-selling tools and inventories. The career stage literature, and especially the contributions made by Super, has drastically changed the paradigms used in career counseling practice. Rather than seeing career choice as a one-off decision, it is now perceived as an ongoing journey of exploration and self-construction. Newer career development theories, such as those devised by Hall and Mirvis, and by Mainiero and Sullivan, encourage putting less pressure on early career individuals to make permanent career decisions and avoid early career mistakes at all costs, thus, reducing stress and encouraging lifelong learning and experimentation.

Nicky Dries

See also Individual Values; Protean and Boundaryless Careers; Self-Concept and the Theory of Self; Social Identity Theory

Further Readings


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**Causal Attribution Theory**

Attributions are causal explanations. Examples of causal explanations include effort, ability, the situation, and luck. The fundamental premise of attribution theory is that people’s beliefs (i.e., attributions) about the causes of significant outcomes (e.g., successes and failures) affect their expectations for success, their emotions, and their behaviors. Thus, a student who believes she failed a test because of a lack of ability is likely to expect to fail in the future, feel bad about her performance, and is less likely to study in the future. Attributions are fundamental cognitive processes that affect a wide range of organizational behaviors. Almost all organizational researchers would agree that the reward structures of organizations are critical to the successes and failures of individuals as well as to the success of organizations as a whole. Therefore, attributions about the causes of individual as well as organizational success and failure are critical because they affect the expectations, emotions, and behaviors of organizational members. As will be discussed below, attribution processes are integral to understanding a wide range of organizational phenomena such as leader-member relations, entitlement perceptions, perceptions of abusive supervision, and counterproductive behaviors. The following sections of this entry contain discussions on the theoretical development of attribution theory, basic concepts, research findings, criticisms, and the future of attribution theory in the organizational sciences.

**Fundamentals**

The origins of attribution theory can be traced back to the work of Fritz Heider, who likened people to naive psychologists, trying to figure out the causes of their outcomes (e.g., successes and failures) as well as the causes of other people’s outcomes (social attributions). According to Heider, understanding the dynamics of causation enables individuals to be efficacious in their interactions with other people and the environment. When individuals understand why they are successful, they know what to expect and how to repeat their successes. On the other hand, understanding the causes of failure enables individuals to avoid future failures.
Following the work of Heider, the two most noted contributors to attribution theory are Harold Kelley and Bernard Weiner. Kelley worked on the front end of the attribution process and described how individuals combine different types of information (consensus, consistency, and distinctiveness) to make social attributions about the causes of people's behaviors. Consensus information is the result of comparing a person’s performance with the performances of others. Consistency information is within-person information and is concerned with the stability of the performance. Distinctiveness is concerned with the interaction between the person’s performance and the situation. Kelley described how the combination of these three sources of information allows observers to attribute a behavior to the person, the situation, or the entity (i.e., the interaction between the person and the situation). Thus, for example, the cause is attributed to the person when consensus is low, consistency is high, and distinctiveness is low.

Weiner focused on describing, explaining, and validating how attributional explanations (e.g., ability and luck) and their dimensions (e.g., internal and unstable) affect the expectancies, emotions, and behaviors of individuals. This early theoretical work as well as the empirical work was grounded in the field of social psychology.

While a few articles addressed attributional processes in the organizational behavior literature in the 1970s, major attention in the organizational behavior literature was not focused on attribution theory until the 1979 publication of an article by Steven Green and Terry Mitchell which explained how attribution processes affected leader–member interactions. Since then, numerous studies have explored the application of attributional processes in organizational contexts. Extensive reviews of this literature have been published by Mark Martinko and his colleagues.

The Basics: Causal Explanations and Dimensions

Typical causal explanations for outcomes such as success and failure include ability, effort, task difficulty, and chance. Underlying causal explanations are the causal dimensions of the explanations. Although numerous causal dimensions have been suggested (e.g., intentionality, controllability, and specificity), the two most common are locus of causality and stability. An internal locus of causality locates the cause within the individual, while an external locus of causality indicates that the cause is in the environment, outside of the individual. Ability and effort are generally considered to have an internal locus of causality, while task difficulty and luck are considered to have external loci of causality. According to attribution theory, the locus of causality dimension activates emotions. Thus, people generally feel good when they make internal attributions for success and bad when they make internal attributions for failure.

Stability affects expectations. When causes are believed to be stable (e.g., nature of the task and ability), individuals expect the same outcomes in the future. When causes are unstable, different outcomes are possible in the future. Thus, students who believe they failed tests because of deficient ability, which is generally considered to be an internal and stable attribution, are likely to feel bad (internal locus), expect to fail again in the future because the cause is stable, and fail to study (i.e., behave) because of their expectations and feelings. On the other hand, when failure is attributed to effort, which is generally considered to be internal and unstable, students may still feel bad but may be motivated to do better in the future because the cause (lack of effort) is unstable and can be remedied.

Attribution Biases and Styles

The notion of biases and styles is that individuals have innate tendencies and encounter situations that lead to certain types of attributions. Research demonstrates that most individuals display a self-serving bias, which is the tendency to make internal attributions for success and external attributions for failure. This bias is prevalent across most individuals and most cultures.

Another important bias is the actor-observer bias, which is the tendency for actors (people behaving and performing) to make external attributions for their performances, while observers tend to attribute actors’ successes and failures to the internal characteristics of the actor. Thus, baseball players tend to attribute their batting performances to the opportunities the pitcher provides (external attributions), while the fans attribute the batter’s performances to the characteristics of the batter (e.g., reaction time and strength).
Individuals also display attribution styles, which are tendencies to make the same types of attributions across a variety of situations. Thus, some individuals can be characterized as optimistic, tending to attribute successes to their internal and stable characteristics, such as ability, and their failures to external and unstable causes, such as chance and luck. These types of individuals are generally more resilient in the face of failure. Pessimistic attribution styles are characterized by internal and stable attributions for failure and external and unstable attributions for success. Persistent patterns of pessimistic attributions lead to learned helplessness wherein individuals stop trying even though success may be possible. Alcoholism and drug addiction are often associated with pessimistic attributions styles and learned helplessness. Individuals demonstrate hostile attribution styles when they make external and stable attributions, blaming other people for failures. Research demonstrates that individuals characterized by hostile attribution styles are more likely to report and engage in acts of organizational aggression.

In addition to the styles described above, an almost limitless number of styles can be described by combining attributional dimensions under the condition of success and of failure. Thus, by combining the locus of causality and stability dimensions for success and failure outcomes, 16 different attribution styles for intrapersonal attributions and 16 more styles for interpersonal (social) attributions are possible.

Importance

Attribution Research in Organizations

Since the introduction of attributional perspectives to the field of organizational behavior in the late 1970s and early 1980s, attribution research in organizational settings has proliferated and addressed a wide variety of topics. While a comprehensive review of this research is not possible within space constraints, highlights of some of the findings are provided here to demonstrate the role and importance of attributional processes in organizational behavior.

A substantial body of research has been directed toward confirming the Green and Mitchell model. Numerous studies confirm that Kelley’s dimensions of information are related to supervisors’ attributions and that, in turn, supervisor attributions are related to disciplinary behavior. Although other situational cues, such as subordinate performance and supervisor-subordinate interdependence, affect disciplinary actions, attributions account for a significant proportion of the variance in supervisors’ disciplinary actions.

Considerable research has been done on the self-serving bias. Meta-analyses reveal that the self-serving bias is prevalent in almost all cultures. A series of studies clearly demonstrates that corporate leaders are biased toward taking credit for organizational successes in their annual reports and blaming failures on their environments (e.g., the economy and suppliers). On a more micro level, research demonstrates that both leaders and subordinates demonstrate the self-serving bias in their interactions and that these biases lead to differing perceptions of the quality of their leader-member relations.

There is also support for the actor-observer bias. Multiple studies demonstrate that this bias is prevalent in almost all cultures. The effects of this bias are attenuated when leaders have experience doing the tasks of their subordinates. However, it appears that these biases become more manifest with age. This bias is considered particularly problematic and has been viewed as the cause of inappropriate discipline and training for employees when poor performance is blamed on employee dispositions rather than the actual cause of the poor performance.

Research has also focused on attribution styles. Attributional explanations and attribution styles have been linked to supervisory-subordinate conflict, whistle-blowing tendencies, authentic leadership, entitlement perceptions, abusive supervision, empowerment, learned helplessness, leader-member relations, conflict, bullying, emotions, organizational aggression, victimization by coworkers, alcoholism, drug abuse, depression, emotional intelligence, self-efficacy, self-esteem, negative affectivity, trait anger, impulsivity, impression management, culture, gender, age, feedback, Meyers-Briggs personality types, selection decisions, the employment interview process, the performance appraisal process, ethical judgments, judgments of responsibility, justice perceptions, self- and other-directed counterproductive behaviors, conflict resolution,
Charismatic Theory of Leadership

Some of the most exemplary and influential leaders throughout history have been described as charismatic leaders. In the world of management, renowned entrepreneurs and corporate change agents are often described as charismatic leaders. While popular accounts often ascribe a mythical quality to their charisma, research has shed significant light on the attributes that lead to the perceptions of a leader as charismatic. This entry explores the dimensions that lead to perceptions of charismatic leadership in the eyes of followers. Drawing upon sociologist Max Weber’s definition, charisma is “a certain quality of an individual personality, by virtue of which he is set apart from ordinary men

Mark J. Martinko

See also Achievement Motivation Theory; Affect Theory; Attribution Model of Leadership; Expectancy Theory; Leader–Member Exchange Theory; Social Cognitive Theory

Further Readings


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Charismatic Theory of Leadership

Some of the most exemplary and influential leaders throughout history have been described as charismatic leaders. In the world of management, renowned entrepreneurs and corporate change agents are often described as charismatic leaders. While popular accounts often ascribe a mythical quality to their charisma, research has shed significant light on the attributes that lead to the perceptions of a leader as charismatic. This entry explores the dimensions that lead to perceptions of charismatic leadership in the eyes of followers. Drawing upon sociologist Max Weber’s definition, charisma is “a certain quality of an individual personality, by virtue of which he is set apart from ordinary men
and treated as endowed with supernatural, superhuman, or at least specifically exceptional powers or qualities. These are not accessible to the ordinary person, but are regarded as exemplary, and on the basis of them the individual concerned is treated as a leader.”

To begin to understand charismatic leadership, it is important to realize that it is an attribution based on followers’ perceptions and interpretations of their leader’s behavior. Because it is an attribution, one follower’s charismatic leader may not be another’s. In addition, the behaviors associated with charismatic leadership are a constellation. The expression or presence of a single behavior associated with charismatic leadership is rarely sufficient in itself to engender the attribution of charisma. Instead, a critical mass of behaviors must be present. The presence and intensity of individual behaviors, however, are expressed in varying degrees among different charismatic leaders. Certain behavioral components are more critical and effective sources of charisma in some organizational or cultural contexts, but not in others. For example, in some contexts, unconventionality may be less valued as an attribute of charisma than articulation skills, and in other contexts, it may be more valued. Thus, in order to develop a charismatic influence, a leader must have an understanding of the appropriateness or importance of the various behavioral components for a given context. This entry is a description of the attributes by which charismatic leaders are differentiated from non-charismatic leaders. Specifically, these attributes are examined using a three-stage model of leadership and follower influence.

Fundamentals

To understand why certain behaviors are attributed to charismatic leadership, it is useful to think of leadership from a process standpoint. Specifically, the process involves moving organizational or societal members from an existing present state toward some future state. This could also be described as a movement away from the status quo toward the achievement of desired longer term goals. To frame and distinguish charismatic leadership, let us consider three stages of this process. In the initial stage, the leader critically evaluates the existing situation searching for deficiencies or poorly exploited opportunities in the larger environment from which to formulate future goals. In parallel, the leader must assess what resources are available and what constraints stand in the way of realizing these goals. The leader must also determine the inclinations, abilities, needs, and level of satisfaction experienced by followers since they are pivotal to the mission’s accomplishment. Following this evaluation comes the second stage: the actual formulation and conveyance of goals or objectives by the leader. Attractive goals must be devised, and they must be articulated in a persuasive manner. Finally, in stage three, the leader demonstrates how these goals can be achieved by the organization or the society. This is accomplished through the leader’s and followers’ actions and tactics and through expressions of confidence in the followers’ capabilities.

It is important to note, however, that the stages just described rarely follow such a simple linear flow. Most organizations and societies face ever-changing environments, and their leadership must constantly be about revising existing goals and tactics in response to environmental changes. This model, however, nicely simplifies a great deal of complexity and allows us to more effectively contrast the differences between charismatic and noncharismatic leadership. The reader should simply keep in mind that a leader is constantly moving back and forth between the stages. We will use these three stages as our framework for distinguishing charismatic leadership from other types.

Stage One: The Charismatic Leader’s Sensitivity to the Environmental Context

In the assessment stage, what distinguishes charismatic from noncharismatic leaders is the formers’ ability to recognize deficiencies and opportunities in the present context. These leaders actively search out existing or potential shortcomings in the status quo. For example, the failure of firms to exploit new technologies or new markets might be highlighted as a strategic or tactical opportunity. Likewise, a charismatic entrepreneur, such as Steven Jobs of Apple, might more readily perceive certain marketplace needs and address them with new products or services. A charismatic political leader, such as Gandhi, might advocate radical reforms to the existing political system. In addition, the charismatic leader will often perceive organizational
deficiencies as platforms for advocating radical change. In contexts of relative tranquility, charismatic leaders play a major role in fostering the need for change by creating deficiencies or finding unexploited important opportunities. In summary, any context that triggers a need for a major change or presents unexploited market opportunities is therefore relevant for the emergence of charismatic leadership.

Because of their emphasis on deficiencies or poorly exploited opportunities in markets, organizations and societies, charismatic leaders are always seen as organizational reformers or entrepreneurs. In other words, they act as agents of innovative and radical change. However, the attribution of charisma is dependent not on the outcome of change but simply on the actions taken to bring about change or reform.

In contrast to charismatic leaders, managers often act as administrators who are responsible for the maintenance of the status quo. They influence others through the power of their positions as sanctioned by the organization. While they may advocate change, it is usually incremental and within the bounds of the status quo. Charismatic leaders, however, seek radical reforms for the achievement of their idealized goals and transform their followers (instead of directing or nudging them).

Charismatic leaders are highly sensitive to the constraints in their environments and the availability of resources. They are also sensitive to both the abilities and the emotional needs of followers since these are the most important resources for attaining organizational goals. Such assessments, while not a distinguishing feature of charismatic leaders, are nonetheless particularly important for charismatic leaders because they often assume high risks by advocating radical change. Thus, instead of launching a course of action as soon as a vision is formulated, a leader’s environmental assessment may dictate that he or she prepare the ground and wait for an appropriate time and place, and/or for the availability of resources. It is presumed that many a time charisma has faded due to a lack of sensitivity for the environment.

Stage Two: The Charismatic Leader and Visionary Goals

After assessing the environment, a leader will typically formulate goals for achieving his or her mission’s objectives. Charismatic leadership can be distinguished from other forms of leadership by the nature of these objectives and by the manner in which the leader articulates them.

First and foremost, the goals of charismatic leaders are characterized by a sense of strategic vision. Here, the word vision refers to some idealized goal that the leader wants the organization or society to achieve in the future. The greater the discrepancy of the goal from the status quo, the more likely is the attribution that the leader has extraordinary vision, not just an ordinary goal, and is a charismatic leader. Moreover, by presenting a very discrepant and idealized goal to followers, the charismatic leader provides a sense of challenge and a motivating force for change. Since the idealized goal represents a perspective shared by the followers and promises to meet their aspirations, it is highly attractive to followers despite the challenges it may pose.

A vision and plans for achieving it are, however, not enough. Charismatic leaders must also be able to articulate their vision and tactics in effective ways so as to influence their followers. This involves two separate processes: articulation of the vision within the larger context and articulation of the leader’s own motivation to lead. First, charismatic leaders must effectively articulate for followers the following scenarios representing the larger context: (a) the nature of the status quo and its shortcomings or poorly exploited opportunities; (b) the future vision itself; (c) how the future vision, when realized, will remove existing deficiencies, exploit opportunities, and fulfill the hopes of followers; and (d) the leaders’ plans of action for realizing the vision. In his or her scenarios, the charismatic leader attempts to create among followers a discontentment with the status quo, a strong identification with future goals, and a compelling desire to be led in the direction of the goal in spite of hurdles.

Besides verbally describing the status quo, future goals, and the means to achieve them, charismatic leaders are also articulating their own motivation to lead. Using expressive modes of action, both verbal and nonverbal, they manifest their convictions, self-confidence, and dedication to materialize what they advocate. Charismatic leaders’ use of rhetoric, high energy, persistence, unconventional and risky behavior, heroic deeds, and personal sacrifices all serve to articulate their high motivation and
enthusiasm, which then become contagious among their followers.

Stage Three: Charismatic Leadership and the Achievement of the Vision

The final stage of the charismatic leadership process involves building in followers a sense of trust in the leader’s abilities as well as clearly demonstrating the tactics and behaviors required to achieve the mission’s goals. The charismatic leader accomplishes this by building trust through personal example, risk taking, and unconventional expertise. Generally, leaders are perceived as trustworthy when they advocate their position with thoughtful conviction and demonstrate a concern for followers’ needs rather than their own self-interest. However, in order to be perceived as charismatic, leaders must make these qualities appear extraordinary. They must transform their concern for followers’ needs into a total dedication and commitment to a common cause they share and express them in a disinterested and selfless manner. So charismatic leaders engage in exemplary acts of commitment that are perceived by followers as involving great personal risk, cost, and energy. The higher the manifest personal cost or sacrifice for the common goal, the greater is the perceived trustworthiness of a leader. In sum, the more leaders are able to demonstrate that they are indefatigable workers prepared to take on high personal risks or incur high personal costs in order to achieve their shared vision, the more they reflect charisma in the sense of being worthy of complete follower trust.

Finally, charismatic leaders must appear to their followers as deeply expert in the means to achieve the vision. Some degree of demonstrated expertise, such as reflected in successes in the past, may even be a necessary condition for the attribution of charisma. That said, charismatic leaders reveal their depth of expertise in large part through the use of unconventional or countercultural means to transcending the existing order. Since attributions of charisma depend on followers’ perceptions of their leaders’ “revolutionary” and “countercultural” qualities, these qualities also are manifested through the leader’s idealized visions. But it is their unconventional, countercultural, and innovative behavior that has the greatest influence. Their uncommon behavior, when successful, evokes in their followers emotional responses of surprise and admiration. Such uncommon behavior also leads to an attribution of charisma.

Importance

What makes charismatic leadership so important a topic is the extent to which followers are mobilized to achieve extraordinary organizational outcomes. Few forms of leadership can match these leaders in motivating human performance. To understand why charismatic leaders are so influential, we turn to James Burns’s idea that there are basically two influence processes available to leaders. These are (a) the transactional influence processes and (b) the transformational influence processes.

Under transactional influence, the leader ensures that the followers perform the required behaviors through the use of rewards and sanctions. The success of the transactional influence model is obviously limited to the effectiveness of the “life span” of the commodities offered in exchange. In other words, in the transactional influence mode, followers’ compliance is governed by the value-in-exchange of rewards and sanctions.

On the other hand, the transformational mode of exercising influence is explicit in the charismatic leadership. In this case, the leader works to bring about a change in the followers’ attitudes and values, as he or she moves the organization toward its visionary goals. This change in followers’ attitudes and values is achieved through empowering techniques that increase the self-efficacy beliefs of the followers and affirm that they are capable of achieving the vision. Followers’ compliance is the result of two important factors: (a) their internalization of the leader’s vision and (b) an increase in their self-efficacy beliefs.

In order to understand the influence dynamics underlying charismatic leadership, we draw on sociopsychological theories of influence processes and empowerment. A leader’s influence over followers can stem from different bases of power. Charismatic influence stems from the leader’s personal idiosyncratic power (referent and expert powers) rather than from position power (legal, coercive, and reward powers) as determined by organizational rules and regulations. Participative leaders also may use personal power as the basis of their influence. Their personal power, however, is derived from consensus seeking. Charismatic leaders, however, are
different from both consensual and directive leaders in the use of their personal power. The sources of charismatic leaders’ personal power are manifest in their idealized vision, their entrepreneurial advocacy for radical changes, and their depth of knowledge and expertise. In charismatic leaders, all these personal qualities appear extraordinary to followers, and these extraordinary qualities form the basis of both their personal power and their charisma. Although the use of a personal power base (as opposed to position power base) helps in understanding the charismatics’ transformational influence on followers, the leaders’ empowerment strategies and the resulting empowering experience of followers are critical ingredients to the success of the transformational influence process. As well, the leaders’ identification and commitment, and the exertion of effort to realize the idealized and shared vision, serve as a model to inspire the followers to undergo a self-, or inner, transformation consistent with vision.

The empowerment of followers (building follower self-efficacy and having trust in the leader) is greatly enhanced when charismatic leaders exercise the expert and referent power bases as mentioned earlier. The leader’s expert power is effective in exerting transformational influence because followers perceive their leader to possess the knowledge, abilities, and expertise which followers can draw upon and which they see to be necessary for the attainment of the vision. The followers’ perception that their charismatic leader possesses the needed expertise makes the leader credible and trustworthy. Similar to expert power, the leader’s referent power also lies in the followers’ perception of the charismatic leader’s commitment to followers’ welfare. They perceive the leader’s efforts to be selfless and their intent to be altruistic.

Jay A. Conger

See also Attribution Model of Leadership; Influence Tactics; Leadership Practices; Trait Theory of Leadership; Transformational Theory of Leadership

Further Readings

CIRCUITS OF POWER AND CONTROL

The theory’s central management insight is that power is not a thing that people have but a social relation that is dynamic, potentially unstable, and resisted. Stewart Clegg introduced the idea of circuits of power in 1989 to represent the ways in which power may flow through different modalities. The model defines power as flowing through the social relations of daily interactions, organizational practices, and the disciplinary techniques of social structures. Specifically, power is portrayed through relations that flow through three distinct but interacting circuits: the episodic, the dispositional, and the facilitative. In this entry, the three circuits of power will be outlined and implications drawn for managers.

Fundamentals
In the past, power has been thought of structurally as a matter of different levels and types of control, most notably in Steven Lukes’s 1974/2006 Power: A Radical View. Rather than see power as a structural phenomenon, the central insight of the circuits model is to conceptualize it in a post-structuralist mode as a series of distinctly patterned flows. The most relatively simple circuit entails flows of transitive power, where one agency seeks to get another to do what they would not otherwise do. Power in this sense usually involves fairly straightforward episodic power, oriented toward securing outcomes. The two defining elements of episodic power circuits are agencies and events of interest to these agencies. Agencies are constituted within social relations; in
these social relations, they are analogous to practical experimentalists who seek to configure these relations in such a way that they present stable standing conditions for them to assert their agency in securing preferred outcomes. Hence, relations constitute agents that agents seek to configure and reconfigure; agencies seek to assert agency and do so through configuring relations in such a way that their agency can be transmitted through various generalized media of communication, in order to secure preferential outcomes. All this is quite straightforward and familiar from one-dimensional accounts of power.

Episodes are always interrelated in complex and evolving ways. No “win” or “loss” is ever complete in itself, nor is the meaning of victory or defeat definitely fixed as such at the time of its registration, recognition, or reception; such matters of judgment are always contingent on the temporariness of the here-and-now, the reconstructions of the there-and-then, on the reflective and prospective glances of everyday life. If power relations are the stabilization of warfare in peaceful times, then any battle is only ever a part of an overall campaign. What is important from the point of view of the infinity of power episodes stretching into a future that has no limits are the feedback loops from distinct episodic outcomes and the impact that they have on overall social and system integration. The important question is whether episodic outcomes tend rather more to reproduce or to transform the existing architectonics—the architecture, geometry, and design—of power relations? How they might do so is accommodated in the model: Through the circuit of social integration, episodic outcomes serve to either more or less transform or reproduce the rules fixing extant relations of meaning and membership in organizational fields; as these are reproduced or transformed, they fix or refix those obligatory passage points—the channels, conduits, circuitry of extant power relations. In this way, dispositional matters of identity will be more or less transformed or reproduced, affecting the stability of the extant social relations that had sought to stabilize their powers in the previous episodes of power. As identities are transformed, then, so will be the social relations in which they are manifested and engaged.

System integration also needs to be considered. Changes in the rules fixing relations of meaning and membership can facilitate or restrict innovations in the techniques of disciplinary and productive power, which, in turn, will more or less empower or disempower extant social relations that seek to stabilize the episodic field, recreating existing obligatory passage points or creating new ones, as the case might be.

Clegg’s three circuits interact, are constituted by, and constitute each other, through what Clegg, following actor-network theory, labels as obligatory passage points. The reference to such obligatory passage points should not lead us to think that these circuits are “levels,” meeting at certain points in time only: The framework is neither “dimensional” nor “structural” because the circuits are mutually implicated in each other. These passage points should rather be understood as points of transitions, in which the taken-for-granted nature of the rules and norms constituting our practices are negotiated and fixed. Clegg thus describes power not as a thing with essential qualities but rather as relations between people struggling for meaning. Power concerns decisions made or delayed, certainty established or marginalized, actions taken or ignored, evils tolerated or addressed, privileges bestowed or withheld, and rights claimed or violated. Clegg applies the model to matters of state formation in his 1989 work and has extended it to other substantive areas subsequently. Clegg’s model has been used as a theoretical model for numerous organizational studies. Modern managers should be aware that when almost everything they do can be construed as intervening in power relations, that the interpretations that others place on their actions and interests will in all probability differ from those that the managers in question propose, that resistance to power is normal, and that just as one is seeking to configure power relations to one’s desiderata so will others be with respect to one in relation to their desiderata. Finally, in any complex set of relations, it is probably foolish and idealistic to assume that these relations, interest, and interpretations can be easily aligned. Power relations are inescapable, entangling, and always capable of destabilization and change. Managers need to manage power’s circuitry but should never assume that they control it.

Stewart R. Clegg

See also Actor-Network Theory; Critical Management Studies; Critical Theory of Communication; Interorganizational Networks; Patterns of Political Behavior; Social Power, Bases of; Stakeholder Theory; Strategic Alliances; Strategic Contingencies Theory;
Cognitive Dissonance Theory

Our lives, personally and professionally, are littered with inconsistencies. A manager could believe his employee is a hard worker but find it necessary to lay him off from the company. One could consider oneself a loyal employee but decide to interview at a competing firm. While such inconsistencies are a recurrent part of our lives and the decisions we face, we are driven to maintain consistent cognitions (knowledge) of our beliefs and behaviors. When these cognitions are inconsistent, we experience psychological discomfort known as cognitive dissonance. Situations of dissonance can cause a great deal of mental and physical stress. This experience of disequilibrium has captured the attention of scholars and managers alike for more than 50 years and has been implicated in various important organizational behavior phenomena. Provided in this entry is a brief history of the development of cognitive dissonance theory, including the fundamentals of the construct, and a discussion of important implications for the theory in today’s management practices.

Fundamentals

Leon Festinger introduced the concept of cognitive dissonance while exploring what motivates individuals to reduce inconsistencies in their lives. His formative work attempted not only to define dissonance but also to outline factors that impact the occurrence and magnitude of the experience. Broadly, he proposed that dissonance occurs when people’s cognitive elements are not aligned. Cognitive elements refer to the knowledge people hold about what they do, how they feel, what they like, or what they desire. Festinger also suggested that it is rare to never experience dissonance. First, new information from our surrounding environment continually challenges our existing knowledge of what we do, feel, like, or desire. Second, the choices we make are seldom black and white, and as a result, dissonance is a reality of decision making. Although dissonance cannot always be avoided, the magnitude with which we experience dissonance does vary. Specifically, the magnitude of dissonance confronting us corresponds with the degree of discrepancy and the importance of the two competing cognitive elements. The greater the divergence and/or importance of the cognitive elements, the greater the likelihood that dissonance will be aroused. Based on this interpretation of dissonance, Festinger’s central argument was that people find dissonance highly aversive and strive to reduce the associated psychological discomfort. Ultimately, as the magnitude of dissonance increases, so does the urgency to reconcile the tension.

Multiple strategies can be executed to mitigate psychological discomfort when it is aroused. One approach includes making changes to either cognitions of behavior or cognitions of attitudes when they are not aligned. Consider the example of a manager who lays off an employee whom he holds in high esteem. The manager likely faces a great deal of psychological discomfort since his cognitions of his attitude (holding the employee in high esteem) and behavior (laying off the employee) are at odds. One approach to reducing this dissonance is rehiring the employee. If he is successful in bringing the employee back to his
Cognitive Dissonance Theory

team, the cognitions of his attitude and his behavior will be positively aligned, mitigating the experienced dissonance. Though such a behavioral change may effectively reduce dissonance, a manager might not be at liberty to rehire the employee. In this case, the manager could alter his attitude toward the employee by calling to mind negative examples of the employee’s job performance (e.g., when the employee was late to work, a time when the employee made an error in a report). This change in the manager’s attitude will bring greater consistency between his two cognitive elements and reduce the aroused dissonance.

Significantly altering our cognitive elements is not easy; rather, we are constrained by perceptions of our realities, particularly when our cognitions are highly important. Under such circumstances, another method for reducing dissonance is to introduce new cognitive elements. For example, the manager, if unable to change the cognitions of his behavior or attitude, might add the cognitions that the employee was likely going to quit soon or that the employee enjoys spending time with his family. These new cognitions have the power to offset the proportion of dissonant elements.

As theories of dissonance evolved, self-consistency became a key explanatory mechanism for cognitive dissonance. Elliot Aronson, one of Festinger’s students, proposed that the effects of dissonance are most powerful when a salient self-aspect is threatened. In other words, dissonance is aroused not because cognitive elements do not logically align; rather, dissonance is the result of cognitive elements that challenge the consistency of one’s sense of self. Based on these arguments, Aronson suggested that high self-involvement produces a greater need to justify our beliefs or behaviors. Ultimately, such justification enables individuals to maintain a positive and consistent self-concept. To illustrate this point, imagine an individual who believes that being a loyal employee is core to her identity; however, she takes the day off from work to interview at a competing firm. Given the centrality of loyalty to the individual’s sense of self, a high level of dissonance is likely to be aroused, resulting in a need to justify the interview. Statements of self-justification may include, “I need to take a job that pays me more so I can pay for my child’s college education,” or “If I get this new job, I plan to be there until I retire.” Such cognitions may enable the individual to maintain her sense of being a loyal employee and alleviate anxiety.

Importance

Festinger’s seminal research on cognitive dissonance stimulated substantial interest in the concept among scholars, managers, and mainstream media. In the field of organizational behavior, dissonance theory serves as an important basis for examinations of employees’ attitudes and behaviors. Practitioners are intrigued by inconsistencies in beliefs and behaviors among employees, customers, and even themselves. Business journalists are attracted by the power of dissonance theory to explain seemingly inexplicable actions of managers and employees. A greater understanding of the psychological discomfort that individuals and organizational agents face as well as the means of reducing these tensions helps to explain and predict critical management phenomena including decision making, organizational identification, and unethical behavior.

Decision Making

Every day in organizations, we find ourselves in the position to choose or negotiate between two or more options. Dissonance theory can help to explain why people may enter a decision with particular levels of attraction for the available options but dramatically change their attitudes when a decision is made. Preferences are not static; rather, people continually revise their attitudes to be more consistent with the final decision outcome. For example, imagine a recent graduate who must decide between job offers from two companies—a well-established consulting firm and a high-tech start-up firm. Initially, she perceives both positions as highly and equally attractive; however, she cannot work for both firms and accepts the offer from the high-tech start-up firm. While excited about getting her first job, she also experiences a great deal of psychological discomfort since she abandoned an equally attractive offer. In this situation of free choice, the recent graduate will likely feel compelled either to devalue the consulting firm or to inflate her opinion of the high-tech firm. Thus, cognitive dissonance can be valuable in explaining changes in attitude.

Organizational Identification

Issues of dissonance also pertain to matters of organizational identity (features that members deem as central, distinctive, and enduring about their organizations) and organizational identification.
(the extent to which the organizational membership features in members’ own identities). Just as feelings of dissonance are especially troublesome when they involve one’s self, or identity, at the individual level, the same seems true at the organizational level. It is problematic when core features of an organization’s identity (e.g., “environmental advocate”) appear to be inconsistent with other parts of its identity (e.g., “financially driven”) or with the organization’s actions (e.g., not recycling). Dissonance also tends to accompany changes in organizational identity, problematizing identity change efforts.

Crossing levels of analysis, studies of organizational identification also suggest that individuals are more apt to identify with organizations whose identities are congruent with their sense of self. This alignment between member identity and organizational identity helps to maintain consistency between members’ beliefs and the behaviors in which they engage as organizational agents. A desire for individual-organization identity congruence influences individuals’ choices in joining and staying at particular organizations. It is also another reason why organizational identity change can be difficult for members and organizations. Consider an example of a doctor who believes that being a top surgeon in his field is core to his identity and has chosen to work at a hospital that defines itself in terms of its prestigious medical staff. However, in an attempt to boost languishing patient satisfaction, the hospital attempts to supplant prestige by patient relationships at the core of its identity. This shift in the hospital’s identity from that of prestigious to patient-centered may now conflict with the doctor’s sense of self. In order to cope with dissonance arousal, the doctor may alter his current sense of self from that of a top surgeon to a caregiver, decrease his identification with his hospital, attempt to renegotiate the organizational identity back to emphasizing prestige, or switch hospitals.

Unethical Behavior

Theories of dissonance are also quite relevant to exploring issues of unethical behavior. For example, why do individuals who believe that cheating or stealing is wrong participate in fraudulent activities? It is clear that the belief that cheating is immoral is inconsistent with the behavior of financial deception, likely resulting in psychological discomfort. Emerging research shows that, in an effort to reduce dissonance, individuals will alter their beliefs about immoral acts, such as cheating and stealing, through moral justification. This process of rationalization may enable the individual to perceive cheating or stealing as morally acceptable. Ultimately, the more people justify their actions, the more likely they are to continue engaging in such behavior and even gradually increase its scale of risk and consequence.

Shelley L. Brickson and Courtney R. Masterson

See also Ethical Decision Making, Interactionist Model of; Organizational Identification; Organizational Identity; Self-Concept and the Theory of Self; “Unstructured” Decision Making

Further Readings


Cognitive Resource Theory

Leadership, as a form of interpersonal influence, is most often studied from a leader-centric perspective. Even when early trait approaches to the study of leadership were deemphasized for a time, most conceptualizations of leadership focused on what the leader did. This exclusive focus on the leader was at the expense of any consideration of followers or the context in which the group operated. Cognitive resource theory (CRT) of leadership by Fred Fiedler and Joe Garcia, introduced in 1987, presented a modified approach to the trait theory by considering the contribution of leaders’ specific cognitive resources to work group and organizational performance under demanding work environments. This entry is an outline of the premise of CRT and the situations in which individuals may rely on their intelligence over their experience, versus their experience over their intelligence, as well as the reasons why experience is helpful for developing leader’s technical skills, leadership self-efficacy, and tacit knowledge.

Fundamentals

General cognitive ability, or intelligence, is said to predict many important life outcomes in addition to managerial and leadership performance. However, within the context of CRT, Fiedler’s research in fact found that intelligence did not consistently predict job performance of leaders. Sometimes, intelligence was unrelated or even worse, negatively related to performance. Specifically, while leaders were under stressful situations, intelligence did not contribute to performance; however, in conditions of low stress, a leader’s level of intelligence did predict performance. A number of field studies for diverse groups with diverse measures of leader outcomes showed these effects. Also, within the theory, Fiedler and his colleagues examined the effects of many different types of stressful situations (stressors) including situations that produced evaluation apprehension or stressful work events in diverse groups such as the military, firefighters, student groups, and sports teams. The debilitating effects of stress on intelligence could, it was found, lead to increased anxiety and distracted leaders from the task at hand. It was only in situations where leaders behaved in a directive manner could their intelligence contribute to the group’s performance—but only when stress was low. Even directive behavior was not enough, however, to utilize the leader’s intelligence if stress for the leader was high.

Conversely, Fiedler and his colleagues found a leader’s level of experience played an important role in effectiveness in stressful situations. Experience is often defined as the time served in a particular organization, position, or occupational field. Specifically, under conditions of high stress, they found that more experienced leaders performed better than less experienced leaders. Conversely, under low stress, more experienced leaders were not better performing leaders than their less experienced counterparts, and in fact, sometimes performed less well than less experienced leaders.

The task of leadership requires skill acquisition that goes beyond technical knowledge and represents knowledge of an interpersonal and intrapersonal nature that might be gained through years of experience. Fiedler suggested such skills as cognitive, or problem solving skills (including technical experience, or how to do the task), human relations skills (including leadership role experience, or how to organize a group), self-confidence, and understanding oneself and how to satisfy one’s own needs. Fiedler’s ideas are congruent with the results of a study by Morgan McCall and others in which they asked hundreds of leaders to recall what experiences they thought had made them better leaders. One category of important skills was called executive temperament and included the use of self-confidence, power, and persevering through adversity.

In addition to skill acquisition, leadership experience may enhance a leader’s ability to cope with stressful situations in a number of ways. First, Fiedler and Garcia suggested that increased experience may act to facilitate performance as it represents the dominant response according to social facilitation theory by Robert Zajonc. As stress increases, the ability to concentrate on the task, especially a novel task, decreases and simple or well-learned responses tend to be elicited. Thus, experience on a task leads to better performance when the person performing the task is under stress. Second, experience may affect the appraisal of a stressful event. Most likely, leaders
with a great deal of experience have been exposed to many different types of stressful situations. In other words, another stressful situation may seem like less of a threat because of familiarity with similar situations. Third, experience may work to enhance a leader’s belief in his or her ability to cope with a stressful situation. In other words, a leader may see that a particular situation has the potential to be stressful, but the leader’s belief in his or her ability to overcome any difficulties in the situation will lead to effective performance. According to Albert Bandura, within the organizational context, high self-efficacy specifically tied to a task is required to deploy one’s cognitive resources optimally and to remain task oriented in the face of the many organizational complexities. A measure of leadership self-efficacy developed by Susan Murphy showed that those with greater leadership experience perceived less stress, had higher leadership self-efficacy, and therefore performed better.

CRT has not been without its critics. Criticisms of the theory have focused on the construct of leadership experience: the measures of intelligence used, the measurement of stress, underlying theoretical explanations, and the failure to distinguish the contribution of intelligence and experience to different types of tasks. More specifically, Stephen Zaccaro postulated that leadership experience facilitates the solving of well-defined problems because experience allows a person to acquire knowledge that is applicable to these problems but will not facilitate performance for ill-defined problems because these types of problems require the generation of novel solutions. Robert Sternberg offers that what a person learns from experience represents the three components of “tacit knowledge”: managing self, managing tasks, and managing others. Therefore, years of experience alone will not increase leader effectiveness unless they gain these forms of knowledge.

The implications for a cognitive resource theory of leadership lie in both the selection and training of leaders. Many organizations recognize that training leaders to deal with specific challenging situations improves leadership capabilities. Intelligence as a selection tool will only work if those individuals are also given the opportunity to develop their leadership responses under challenging conditions. Most leader development programs work to find ways for leaders to draw more from their experiences.

Susan Elaine Murphy

See also Agency Theory; Contingency Theory of Leadership; Emotional and Social Intelligence; Social Cognitive Theory; Social Facilitation Management; Tacit Knowledge; Trait Theory of Leadership

Further Readings

COMPETING VALUES FRAMEWORK

The competing values framework (CVF) has been studied and tested in organizations for more than 30 years. It has been labeled as one of the most influential models ever developed in organizational studies. It emerged from studies of the factors that account for highly effective organizational performance. It was developed in response to the need for a broadly applicable method for fostering successful leadership, improving organizational effectiveness, and promoting value creation. The CVF serves primarily as a map, an organizing mechanism, a sense-making device, a source of new ideas, and a theory of management and organizational performance. From the CVF comes a theory regarding how various aspects of organizations function in simultaneous
Competing Values Framework

The competing values framework was developed initially from empirical research on the major indicators of effective organizations, but it has been elaborated to include research on a whole host of other topics—shareholder value, mergers and acquisitions, approaches to learning, organizational culture, leadership competencies, organizational designs, communication styles, organizational virtues, creativity, human resource practices, employee-job matching, financial investments, and information processing. In each case, statistical analyses have confirmed the robustness and applicability of this framework to a broad array of human and organizational phenomena. That is, the same dimensions that emerged from research on organizational effectiveness also emerged when studying a wide variety of other aspects of human and organizational activities. These dimensions compose the CVF. Figure 1 illustrates this framework.

All organized human activity has an underlying structure. Completely haphazard action, or randomly dispersed elements, is said to be without organization. Organization, by definition, therefore, denotes patterns and predictability in relationships. Identifying the underlying dimensions of organization is one of the key functions of the CVF. It helps uncover the underlying relationships that exist in organizations, leadership, learning, culture, motivation, decision making, cognitive processing, creativity, and so on.

The basic framework comprises two dimensions—one drawn vertically and the other drawn horizontally—resulting in a two-by-two figure with four quadrants. The study of effectiveness in organizations three decades ago revealed that some organizations were effective if they demonstrated harmony as well as in tension with one another. The framework identifies a set of guidelines that can help leaders diagnose and manage the interrelationships, congruencies, and contradictions among these different aspects of organizations. In this entry, the history and development of the CVF are briefly discussed, the core dimensions of the framework are explained, and the applicability of the framework to organizational culture and performance is considered.

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flexibility and adaptability, but other organizations were effective if they demonstrated stability and control. Similarly, some organizations were effective if they maintained efficient internal processes whereas others were effective if they maintained competitive external positioning relative to customers and clients. These differences represent the different ends of the two dimensions that makeup the CVF.

More specifically, one dimension of the framework differentiates an orientation toward flexibility, discretion, and dynamism from an orientation toward stability, order, and control. One dimension in the CVF, in other words, represents a continuum ranging from versatility and pliability on one end to consistency and durability on the other end. When referring to individuals, this dimension differentiates people who learn inductively, communicate with animated and speculative ideas, and process information by searching for innovative applications from people who learn deductively, communicate with rational and considered ideas, and process information methodically.

The second dimension of the framework differentiates an orientation toward an internal focus and capability, as well as the integration and unity of processes, from an orientation toward an external focus and opportunities, as well as differentiation and rivalry regarding outsiders. That is, some organizations have value associated with their harmonious internal characteristics; others have value associated with their challenge or competition with entities outside their boundaries. This dimension ranges, in other words, from cohesion and consonance on the one end to separation and independence on the other. When referring to individuals, this dimension differentiates people who learn by examining familiar information, communicate using harmonizing strategies, and process information by analyzing consistencies and congruencies, on the one hand, from people who learn by searching for unfamiliar elements, communicate using confronting strategies, and process information by analyzing uniqueness, aberrations, and discontinuities, on the other hand.

Together, these two core dimensions form four quadrants, each representing a distinct cluster of criteria. The resulting framework represents the way people evaluate organizations, the way they process information and learn about their environments, the way they organize and lead others, the kinds of value created for customers, the clustering of organizational elements, and so on. The framework also defines what people see as good, right, and appropriate. It captures the fundamental values—or culture—that exist in organizations. Importantly, the dimensions produce quadrants that are also contradictory or competing on the diagonal. They highlight one of the most important features of the CVF, namely, the presence and necessity of paradox.

Each of the four quadrants has been given a label in order to characterize its most notable characteristics for creating value. The original formulation of the CVF used terms derived from the scholarly literature in organizational studies to define each quadrant—Clan (upper left), Adhocracy (upper right), Market (lower right), and Hierarchy (lower left). In communicating to practicing leaders and managers, however, action verbs are often used that highlight major themes in each quadrant—collaborate, create, compete, and control—since these terms contain more practical meaning. The two upper quadrants share in common an emphasis on flexibility and dynamism, whereas the two bottom quadrants share an emphasis on stability and control. The two left-hand quadrants focus on internal capability whereas the two right-hand quadrants focus on external opportunity. What is important to remember is that the quadrants represent clusters of similar elements and similar orientations, but those elements and orientations are contradictory to those in the diagonal quadrant.

Importance

Among the most important aspects and source of the practical utility associated with the competing values framework are the attributes of the four quadrants themselves. Understanding these quadrants has made the framework relevant to a wide variety of phenomena and topics associated with organizations, cognitions, motivations, and so forth. A brief summary of each quadrant follows.

The hierarchy (control) quadrant. The earliest approach to organizing in the modern era was based on the work of a German sociologist, Max Weber, who studied government organizations in Europe during the early 1900s. The major challenge
faced by organizations at the turn of the 20th century was to efficiently produce goods and services for an increasingly complex society. To accomplish this, Weber proposed seven characteristics that have become known as the classical attributes of bureaucracy: rules, specialization, meritocracy, hierarchy, separate ownership, impersonality, and accountability. These characteristics were highly effective in accomplishing their purpose. They were adopted widely in organizations whose major challenge was to generate efficient, reliable, smooth-flowing, predictable output. In fact, until the 1960s, almost every book on management and organizational studies made the assumption that a hierarchy was the ideal form of organization because it led to stable, efficient, highly consistent products and services. Because the environment was relatively stable, tasks and functions could be integrated and coordinated, uniformity in products and services was maintained, and workers and jobs were under control. Clear lines of decision-making authority, standardized rules and procedures, and control and accountability mechanisms were valued as the keys to success.

The hierarchy organization, therefore, is characterized as a formalized and structured place to work. Procedures govern what people do. Effective leaders are good coordinators and organizers. Maintaining a smooth-running organization is important. The long-term concerns of the organization are stability, predictability, and efficiency. Formal rules and policies hold the organization together.

The market (compete) quadrant. Another form of organizing became popular during the late 1960s as organizations faced new competitive challenges. This form of organizing relied on a fundamentally different set of assumptions than the hierarchy and was referred to as a market form of organization. The term market is not synonymous with the marketing function or with consumers in the marketplace. Rather, it refers to a type of organization that functions on the basis of market mechanisms. The market operates primarily through economic transactions, competitive dynamics, and monetary exchange. That is, the major focus of markets is to conduct transactions (exchanges, sales, contracts) with external constituencies to create competitive advantage. Profitability, bottom-line results, strength in market niches, stretch targets, and secure customer bases are primary objectives of the organization. Not surprisingly, the core values that dominate market-type organizations are competitiveness and productivity.

A market organization, therefore, is a results-oriented workplace. Leaders are hard-driving producers and competitors. They are tough and demanding. The glue that holds the organization together is an emphasis on winning. The long-term concern is on competitive actions and achieving stretch goals and targets. Success is defined in terms of market share and penetration. Outpacing the competition and market leadership are important.

The clan (collaborative) quadrant. A third ideal form of organization is represented by the upper left quadrant in Figure 1. It is called a clan because of its similarity to a family-type organization. In the 1970s and 1980s, a number of researchers observed fundamental differences between the market and hierarchy forms of organization and an alternative form that became popular initially in Asia. Shared values and goals, cohesion, participation, individuality, and a sense of “we-ness” permeated clan-type firms. They seemed more like extended families than economic entities. Instead of the rules and procedures of hierarchies or the competitive profit centers of markets, typical characteristics of clan-type firms were teamwork, employee involvement programs, and corporate commitment to employees.

The clan organization is typified as a friendly place to work where people share a lot of themselves. It is like an extended family. Leaders are thought of as mentors and perhaps even as parent figures. The organization is held together by loyalty and tradition. Commitment is high. The organization emphasizes the long-term benefit of individual development, with high cohesion and morale being important. Success is defined in terms of internal climate and concern for people. The organization places a premium on teamwork, participation, and consensus.

The adhocracy (creative) culture. In a hyperturbulent, constantly changing environment, a different set of assumptions was developed that differed from those of the other three forms of organization. These assumptions were that innovative and pioneering initiatives are what leads to success, that organizations are mainly in the business of developing new products and services and preparing for the future, and that the major task of management is to foster
entrepreneurship, creativity, and activity “on the cutting edge.” It was assumed that adaptation and innovativeness lead to new resources and profitability, so emphasis was placed on creating a vision of the future, organized anarchy, and disciplined imagination. They have been characterized as “tents rather than palaces” in that they can reconfigure themselves rapidly when new circumstances arise. A major goal of an adhocracy is to foster adaptability, flexibility, and creativity where uncertainty, ambiguity, and information overload are typical.

The adhocracy organization, therefore, is characterized by a dynamic, entrepreneurial, and creative workplace. People stick their necks out and take risks. Effective leadership is visionary, innovative, and risk oriented. The glue that holds the organization together is commitment to experimentation and innovation. The emphasis is on being at the leading edge of new knowledge, products, and services. Readiness for change and meeting new challenges are important. The organization’s long-term emphasis is on rapid growth and acquiring new resources. Success means producing unique and original products and services.

A search of the scholarly literature from 2000 to 2009 revealed that the competing values framework was the focus of more than 50 journal articles and 59 doctoral dissertations. The framework was utilized by scholars in diverse disciplines including agriculture, education (primary, secondary, junior colleges, and universities), nonprofits, religious organizations, military, sports, health care (physicians, nurses, hospitals, and nursing homes), government, and business. Its scope is also international, with studies conducted on every continent except Antarctica, including Kenya, the Netherlands, Taiwan, Hong Kong, Singapore, the United Kingdom, Greece, Qatar, Australia, Canada, and across the United States. Empirical support is strong that the competing values framework is empirically validated, theoretically confirmed, and practically useful. It is most likely the most utilized framework in the world for assessing organizational culture and facilitating culture change. The framework is also frequently used to guide management and leadership competency development.

Kim Cameron

Further Readings

COMPETITIVE ADVANTAGE

The primary objective of a firm’s strategy is to identify, create, and sustain a competitive advantage over its industry rivals. A firm is said to possess a competitive advantage if it outperforms its industry rivals over a sustained period of time. Although the scholarly roots of a hypothetical theory of competitive advantage are dispersed across a fragmented management literature, it can be inarguably stated that the primary roots lie in Michael Porter’s seminal work on the strategic management of firms—often informally referred to as Porter’s theory of competitive advantage. Accordingly, a firm’s strategy should identify a unique strategic position within its industry so as to reduce or counter the profit-reducing effect of the competitive forces in that industry. The entry is organized as follows. The next section is focused on the fundamentals of this theory as laid out in Porter’s seminal work that provides both frameworks to explain various position-based advantages and prescriptions to achieve and sustain the same. The subsequent section is focused on other developments in the management literature that either were triggered as systematic efforts to provide an alternate
explanation for the competitive advantage of firms or extend the concept of competitive advantage to other contexts (e.g., multibusiness firms). This section also shows the conceptual gaps that need to be addressed in order to develop a comprehensive theory of competitive advantage. The final section is a combination of arguments that articulate the internal—and external—environmental perspective on competitive advantage to provide an explanation of how firms create and sustain competitive advantage.

Fundamentals

While the concept of competitive advantage may have originated in the prescriptive literature, its ascendancy as a preeminent theoretical construct is firmly rooted in an interdisciplinary descriptive literature. The prescriptive literature primarily focuses on explaining (to the CEOs) how to create and preserve competitive advantage (to maximize shareholder returns). On the other hand, the descriptive literature focuses on exploring the causality issues from a scholarly perspective. However, a consensus eludes both streams concerning not only the measure of firm performance that reveals competitive advantage but also the factors that contribute to the creation and sustainability of firms’ competitive advantage.

Porter’s pioneering work in the late 1970s and early 1980s generated both theoretical and prescriptive frameworks to explain the pervasive yet consensus-eluding concept of competitive advantage. In his scholarly articles published in various academic journals, he explains what is now referred to as the positioning-based advantages of firms, and provides the intellectual foundations for a robust field of scholarly inquiry. Porter’s best-selling books, Competitive Strategy in 1980 and Competitive Advantage in 1985, provided not only the intellectual foundations for his theory of competitive advantage but also bridged the divide between the prescriptive and descriptive literature.

Five Forces

Porter’s Competitive Strategy provides a framework to identify the basis of competitive advantage in a firm’s proximate industry environment—referred to as Porter’s five forces of competition model. The model predicts the average profitability of an industry in terms of three horizontal and two vertical forces of competition that together determine the structural attractiveness of the focal industry. Basically, the industry structure determines the extent to which the value created by a firm for its customers is competed away (in an unattractive structure) or appropriated by the firm (in an attractive structure). The three horizontal forces of competition that negatively influence industry profitability include the threat of new entrants, interfirm rivalry, and the threat of substitutes. The two vertical forces of competition include the bargaining power of suppliers and buyers. A firm’s strategy—formed by an ex-ante analysis of its industry structure—should aim (a) at the very least to cope with these competitive forces, or (b) preferably to counter their negative effects on profitability but (c) ideally to exploit the attractive features of the industrial market.

Generic Strategies

Porter’s Competitive Advantage prescribes three generic strategies for firms to create competitive advantage: cost-leadership, differentiation, and focus. A firm’s choice of one of these generic strategies is influenced by its ex-ante choices of competitive advantage (cost-advantage vs. differentiation-advantage) and competitive scope (broad scope vs. narrow scope). A firm’s choice of a generic strategy locks it into a clearly identified strategic position and hence is associated with certain risks. Each of these positions is in turn associated with a unique set of activities—through which firms create the chosen value for the customers—and a specified organizational design to accommodate the unique sets of activities. The trade-offs associated with each strategic position renders it impossible or uneconomical for rivals to imitate or enter. Porter’s value chain framework is widely employed by firms to identify their activities, analyze the linkages and strategic fit among these activities, and examine the cost-reducing and/or value-enhancing potential of each strategic activity.

Position-Based Advantage

At any time, an industry environment may support one or more competitive positions that are associated with certain advantages and trade-offs. The hypothetical position-based advantages of
firms ensure that the value firms create for their customers exceeds the costs of creating that value. Basically, firms’ favorable strategic-position contribute to their superior performance vis-à-vis their rivals by (a) lowering the cost of creating and delivering value to the consumers and (b) raising consumers’ willingness to pay. For instance, Walmart’s substantial cost advantages over its rivals in the discount retail industry allow it to offer comparable value at the lowest prices. Similarly, Apple’s differentiation advantage allows it to extract a substantial price premium for most of the high-value products that it sells.

Evolution

The evolution of the concept of competitive advantage can be mapped onto that of the field of strategic management from a normative discipline to a positive science. The “early” strategy literature in the 1970s and 1980s primarily focused on prescriptions for business firms to achieve competitive advantage. In the mid- to late 1980s, the literature began to focus more on explaining the underlying sources of competitive advantage. Toward this effort, the field of strategic management has drawn constructs both from the external- and internal-environment to explain competitive advantage and thereby superior firm performance.

In the 1970s, a few strategy researchers began to build on the conceptual work in theoretical and empirical industrial organization (IO) economics—concerning imperfect competition—to provide structural explanation for the empirical evidence that some firms consistently outperform others. (The concept of imperfect competition developed by IO researchers challenged an important premise in neoclassical economics that any profit differences at the firm-level would be imitated away in perfectly competitive markets.) Further developments in the strategy literature allowed understanding these differences in terms of efficiency of individual businesses rather than industry structure.

In the 1990s, Adam Brandenburger and Harbourne Stuart proposed a value-price-cost bargaining framework regarding a firm’s competitive advantage to explain its ability to appropriate the value it creates—for its consumers—as profits. A firm’s ability to appropriate this surplus is negatively influenced not only by its rivals but also by its consumers and suppliers. More specifically, a firm’s competitive advantage vis-à-vis its rivals translates into a wider gap between the targeted customers’ willingness to pay for its products and the supplier opportunity cost that it incurs to serve those customers.

The concept of competitive advantage remains a touchstone for “sound” strategy even though almost five decades of research have failed to produce testifiable propositions let alone a comprehensive theory of competitive advantage. Together with the concept of strategy, it has fueled the imagination of scholars and practitioners alike, more so than any other area of academic inquiry in management. Yet the field of strategy still awaits a comprehensive theory of competitive advantage that would explain persistence in performance difference across firms in terms of both the systematic difference among firms and their environmental context. More recently, strategy scholars have sought to address several issues toward developing such a comprehensive theory of competitive advantage.

Resource- and/or Capabilities-Based Advantage

At any time, some firms may somehow come to possess specific resources and/or capabilities that confer on them certain advantages over their rivals. Firms are either endowed with certain resources at birth (entry into an industry), or they acquire certain strategic assets from strategic factor markets upon entry, or they internally develop certain capabilities over their life cycle. The advantages conferred by these idiosyncratic characteristics allow the firms to either create superior value for their customers or generate comparable value at a lower cost vis-à-vis their rivals. In summary, the resource-based view of the firm explains a firm’s competitive advantage in terms of unique resources that are valuable, rare, imperfectly imitable, and nonsubstitutable. The first-order effect on firm performance—referred to as Ricardian rents—is explained as resulting simply from some firms possessing these resources unlike their rivals. The second-order effect on firm performance is explained in terms of how firms effectively manage these resources vis-à-vis their rivals. The concept of firm capabilities explains why some firms are better able to manage their resources to gain advantage over their rivals who might possess similar resources. A firm may outperform its rivals
who possess similar resources by effectively structuring (e.g., acquiring, accumulating, and divesting resources), bundling (e.g., integrating resources to form capabilities), and leveraging (e.g., mobilizing, coordinating, and deploying bundles of resources to exploit market opportunities) its resources. The dynamic capabilities framework explains a firm’s competitive advantage in terms of its ability to create heterogeneous resource positions in a dynamically evolving business environment. The effect of dynamic capabilities on firm performance is sometimes referred to as Schumpeterian rents.

**Corporate Advantage**

Corporate strategy scholars seek to understand whether a firm can leverage (a) its competitive advantage in one market to generate superior performance in another market and (b) its advantages across multiple markets to generate superior performance at the corporate level. While the concept of competitive advantage is useful to address the first issue, it does not really explain superior performance of multibusiness firms. The analogous concept that explains superior performance at the corporate level due to portfolio effects is defined as corporate advantage. The underlying logic of the portfolio effects is defined as corporate advantage. The underlying logic of the portfolio effects draws on the resource-based view and transaction cost economics. Hence, corporate advantage accrues to a firm if it can share efficiency-enhancing and/or value-creating resources across two distinct portfolio businesses when it is not possible to exploit those resources through the market.

**Demand-Side Dimensions of Competitive Advantage**

The extant explanation of cost- and differentiation-advantage focuses on how firms’ supply-side activities enable them to capture a greater portion of the value created as profits. While a supply-side explanation of how firms lower the costs of creating and delivering value—by negotiating with their upstream suppliers and/or downstream partners—may be adequate, the same cannot be said about the supply-side explanation of how firms raise consumers’ willingness to pay. For instance, typical analyses assume that customers’ willingness to pay increases with the performance characteristics and thereby recommend that (say) a car manufacturer should increase fuel-efficiency to provide more value to consumers in order to raise the latter’s willingness to pay. In doing so, these analyses ignore the role of firms’ demand environment, which in the first place determines the value that is required to be created by the firms. Recent advances in the strategy literature have examined the characteristics of the demand environment that possibly influence firms’ differentiation advantage. These include heterogeneity in consumers’ (a) preferences regarding product attributes, performance, price, and so on; (b) marginal utility for incremental performance improvements; (c) expectations for (say) interoperability of the basic industry product with a range of complements, and so on.

**Endogeneity of Market Structure**

Any endeavor toward developing a comprehensive theory of competitive advantage would have to bridge the external- and internal-environment schism that currently forces scholars to ground their theoretical arguments on one side of the divide. Most analytical accounts of sustainable competitive advantage fail to explain how firms’ strategic choices influence and are simultaneously influenced by the coevolution of external industry competition and internal firm competences. Strategy scholars need to explain how the endogenously determined contextual conditions (market structure) influence the firms’ strategic choices that in turn affect their own competences along with the contextual conditions themselves. Such a theory would explain the complex endogenous processes through which temporally heterogeneous firm (investment) strategies influence and are influenced by the evolution of (a) the industrial market-structure and its determinants—technology, demand, and policy and (b) internal firm-specific characteristics, such as resources, capabilities, and/or dynamic capabilities.

**Importance**

The extant theories of competitive advantage address two fundamental management issues. First, how do firms create competitive advantage? Second, can firms sustain their competitive advantages? If so, then how?
thereby enjoy an advantage over its rivals who may have chosen a different position. Hence, a firm's chosen position confers it with an advantage by providing it with an ability to either (a) impose high switching costs on buyers, and/or (b) raise rivals cost of entry, and/or (c) exploit economies of scale and scope, and/or (d) retaliate against later entrants, and so on. An advantageous competitive position allows the occupying firm to create some imperfections in the market and thereby extract monopoly rents. Although the logic of position-based advantage is quite compelling, the complexity of the phenomena—due to the presence of trade-offs and interdependencies among various firm-level activities—has restricted the full analytical treatment of the same. For instance, it is difficult for firms to alter their strategic positions as the industry evolves because of the trade-offs between the positions.

The literature on resource- and/or capabilities-based advantage seeks to explain the firm-level processes through which these advantages first arise. More specifically, it explains various processes through which firms manage their resources to create value for their customers and thereby generate competitive advantage vis-à-vis their rivals. However, it provides ex-post accounts of the performance benefits of specific resource management techniques and doesn’t seem to have made much progress in terms of developing a framework that could guide the internal firm-specific or the external environmental analyses to inform the ex-ante strategic choices concerning resource management. This stream of literature lacks a framework that would inform strategic choices concerning the (a) acquisition, accumulation, or divestment of resources jointly referred to as structuring of resources; (b) improvement and extension of existing capabilities along with development of new capabilities jointly referred to as bundling; and (c) mobilizing, coordinating, and deploying capabilities to exploit new opportunities. In other words, the missing framework would not just inform (say) which resource to acquire and how much to invest and over what time period in order to acquire the said resource that would confer a firm with a particular competitive advantage.

**Sustaining Competitive Advantage**

A firm can sustain its position-based advantage(s) if its rivals are unable to imitate the underlying sources of advantages due to physical, legal, or economic constraints. Hence, whether a firm can sustain its position-based advantage depends upon the barriers to imitation and entry: scale and scope economies, switching cost of buyers, entry costs, and so on. On the other hand, a firm’s position-based advantage is sustainable against innovation by rivals only if it continuously improves so as to enjoy a wider wedge between the value created for its customers and the opportunity cost of its suppliers. However, dominant firms may sometimes exploit away their advantages to maximize profits—under pressure from investors—when forced to choose between exploiting their advantage and investing further to sustain their competitive position.

A firm can sustain its resource-based advantage if the underlying economizing- or value-producing resources are scarce and imperfectly mobile on one hand and inimitable on the other. While scarcity drives up the cost of the underlying resource (e.g., talent) thereby benefiting the owner vis-à-vis the firm which seeks to exploit it, the imperfect mobility of the resource (e.g., location) counters that effect. The literature provides an insight into resource characteristics that serve as isolating mechanisms. For instance, a rival may not want to imitate a rival’s particular resource because the cost of accumulating it in the shortest possible time would make it uneconomical. The other barriers to imitation include legal restrictions (e.g., copyrights, trademarks, and patents), superior access to inputs and/or customers, and so forth.

A firm can sustain its capabilities-based advantages against threat of imitation if its rivals are somehow unable to learn the causal mechanism that explains the performance implications of those capabilities. On one hand, combinatorial complexity acts as a barrier to active learning (e.g., learning-by-doing) by rivals thereby serving as a source of sustained capabilities-based advantage. On the other hand, causal ambiguity deters passive learning (e.g., absorptive learning) by rivals and hence even though it is a necessary condition to develop capabilities-based advantage it is by no means sufficient to ensure that such advantage can be sustained. This is because rivals may eventually erode such an advantage by sustained active learning. Finally, a firm can sustain its capabilities-based advantages under threat of innovation by rivals by continuously improving the underlying capabilities before its rivals catch up.

Lalit Manral
See also Diversification Strategy; Dynamic Capabilities; First-Mover Advantages and Disadvantages; Seven-S Framework; SWOT Analysis Framework; Value Chain

Further Readings


COMPLEXITY THEORY AND ORGANIZATIONS

Complexity theory is a body of research concerned with explaining emergent patterns in physical properties or social behavior that cannot be explained by studying the individual building blocks in isolation but rather emerge from their interactions. The nonlinear and nonadditive nature of the interactions requires the study of the system as a whole. As a theoretical approach, complexity theory has been proposed to provide a complement to the traditional reductionist approach to science. The theory’s central management insight is that managers need to understand how individuals and firms interact and not just how they perform individually. The theory provides a set of tools that facilitate this understanding. This entry will describe the key assumptions, building blocks, and insights of the complexity theory as applied within the context of management research.

Fundamentals

The complexity theory in management is largely based on the Kauffman NK model. Stuart Kauffman, a biologist, designed the model to study how interactions between genes affect the fitness of a species. Within the context of organizations, the model has been used to explain how the interactions among decisions within and across organizations affect organizational performance. The effect of the interactions on organizational performance has been studied within the context of various organizational structures, incentive systems, learning processes, technological regimes, industry characteristics, and environmental dynamics.

The key construct of the model is the notion of interdependence. Interdependence between two decisions exists when one decision influences not only its own performance contribution but also the performance contribution of another decision. The overall organizational performance is assumed to be a function of the performance contributions of all decisions that the organization makes. The organizational performance is emergent in the sense that it cannot be deduced from the analysis of each organizational unit in isolation but rather depends on the interactions within the system as a whole. The model is most relevant, and its predictions are most likely to hold, in contexts where the outcomes are driven by the interactions among the decisions as opposed to being dominated by individual decisions.

The model assumes that decision makers within organizational units have bounded rationality. Bounded rationality implies that the decision makers are unable to select the best possible set of decisions but must proceed through an iterative search. An iterative search consists of trial-and-error steps. After each step, the decision makers change a limited number of decisions and observe whether the changes lead to an increase in performance. Typically, only performance-enhancing choices are retained.
The key relationship predicted by the model is that, due to bounded rationality, an increasing density of interdependencies complicates the search of the decision makers. With few interdependencies, changes in a small number of decisions have a small impact on the overall organizational performance. When the interdependencies are dense, however, even changing a small number of decisions can have a dramatic effect (positive or negative) on the overall organizational performance as the focal decision may affect the performance of many other decisions. Limited in their ability to consider a wide range of decisions, the boundedly rational decision makers tend to settle on less than optimal outcomes when facing interdependent choices. A higher density of interdependencies, thus, potentially leads to lower organizational performance. The research has examined a variety of factors that interact with this relationship and could potentially allow the organization to achieve a higher organizational performance. These factors include organizational centralization versus decentralization, differences in the cognitive mechanisms and imitative abilities, and technological modularity and environmental turbulence. The NK model has been recently extended to study the effect of interdependencies across organizational units and entire firms.

Several other complexity theories have made limited inroads into organizational research. First, a complexity theory has been developed to study the dynamic properties of organizational outcomes. This theory is concerned with explaining the differences and transitions between ordered and chaotic sequences of data. The objective is to explain which generative mechanism drives the patterns found in the time series data of organizational outcomes and to study how the number and characteristics of the interacting organizational units as well as the nature of their interactions lead to the ordered versus the chaotic regimes. Second, complexity theory has recently been converging with network theory. Within the context of organizations, network theory focuses on how the network topology (defined as the layout of the connections between network nodes) across and within organizations affects organizational outcomes. As the focus of network theory shifts from the study of a static topology to a dynamic one, the insights gained through complexity theory become more relevant. Even though complexity theory originates in physics and biology, its insights are closely related to some traditional thoughts within management literature. Complexity theory is inherently focused on processes; thus, it is related to the process and the evolutionary theories in management.

The main tool used to generate the insights and predictions based on complexity theory is computer simulations. Nonlinear interactions among a large number of interacting units make studying complex systems using either verbal theorizing or analytical mathematical approaches problematic. The computer simulations used in complexity theory are typically designed as agent-based simulations. An agent-based simulation is constructed by modeling each organizational unit as an agent in the simulation while describing the behavioral rules which the agents will follow. The agents are positioned in a particular topology that defines the agents’ interactions. Performance mapping is then used to map decisions that agents make onto performance outcomes. The emergent patterns are observed and analyzed after running the simulations many times (10,000 or more). Predictions and insights can then be deduced by varying the parameter values or model structure and observing statistically significant differences in the observed performance patterns.

Even though complexity theory provides an appealing approach for studying organizational phenomena, empirical studies of complexity models are currently lagging behind theory development. Recently, however, empirical studies appear to be gaining momentum and are expected to grow substantially in the near future.

Managers today can utilize the insights from the complexity theory when designing organizational structures or product architectures or when managing their research personnel. For instance, researchers showed that when designing a modular system, erring on the side of greater integration is associated with lower penalty than erring on the side of higher modularity. Similarly, it has been shown that in cases when few core decisions interact with many peripheral components, broad exploratory search is not needed. Consequently, the complexity theory is starting to provide useful tools that can guide managerial decisions when dealing with interdependent decisions.

Martin Ganco

See also Bounded Rationality and Satisficing (Behavioral Decision-Making Model); Social Network Theory; Systems Theory of Organizations; Technology and Complexity; Technology and Interdependence/Uncertainty
Further Readings


COMPLIANCE THEORY

Before the publication of the compliance theory in 1961 in Amitai Etzioni’s *A Comparative Analysis of Complex Organizations*, the area of study now known as organization studies was not widely recognized. Instead, studies were organized according to specific kinds of organizations (for instance, industrial sociology, the study of bureaucracies, churches, military institutions, and so on). Compliance theory held that all these units have common features, namely, that organizations are “artificial” social entities that differ from “natural” ones such as the family, clans, and tribes. Organizations have stated goals and are designed to implement them. Hence, the interest in which kinds of power best advance the goals they are meant to serve—and the importance of the orientation of participants that may lead them to undermine or much enhance the organizational goals. This entry is an examination of the ways managers motivate employees, leaders motivate followers, or commanders motivate soldiers to do what must be done. Management to a large extent concerns the management of people. One of the most important questions is how to find ways that move people to do what must be done—and not reject or resent their duties, indeed, if possible benefit from or enjoy them. Progress can be achieved toward good management by taking into account that different missions require different kinds of commitments and incentives and rewards.

Fundamentals

The research leading to the publication of the compliance theory was carried out by Amitai Etzioni at Columbia University. It drew on a secondary analysis of some 1,100 studies of a large variety of organizations. After its publication, a considerable number of studies tested, modified, challenged, and expanded the theory, which for an extended period of time was very widely cited. A revised edition of *A Comparative Analysis of Complex Organizations* was issued in 1975, which reviewed these studies and showed that the theory was largely confirmed or extended. Arguably the most important extension was the application of the theory to international relations.

The key finding at the foundation of compliance theory is that organizations that differ in the means they use to control their participants (power) and—in the orientations of their participants toward them (involvement) also differ significantly in numerous other ways. Compliance refers to a combined “reading” of both the kind of power employed (of which there are three kinds: coercive, remunerative, and normative) and involvement (which ranges from highly negative to highly positive). Thus, prisons tend to be largely coercive organizations, and their inmates’ involvement tends to be negative. In contrast, voluntary associations rely mainly on normative power, and their members’ involvement tends to be positive.

Coercive power is defined by the use of force; remunerative power is based on compensation, salaries, wages, fees, and fines; normative power is based on appeals to values people already have, persuasion, and leadership. Involvement refers to attitudes of members of the organization, the rank and file, toward the organization, its goals, and leaders.

While organizations often mix their means of control and draw on two or all three kinds, most rely heavily on one of the three kinds. Thus, prisons rely relatively heavily on coercion, factories rely relatively heavily on remunerative power, and churches rely largely on normative power in dealing with their parishioners. Our second main finding is
that most of the lower participants of most organizations display a typical involvement with their kind of organization. For instance, most inmates of most prisons are more hostile toward their prisons than are most workers toward most factories.

In some organizations, the two independent variables (power and involvement) are not congruent. Compliance theory predicts that the resulting tension will lead to changes in either power or involvement, moving these organizations toward compliance equilibrium. Thus, if one tries to draw on normative power in dealing with inmates in a high-security prison, they will not comply, forcing the organization to either use coercive power or find ways to improve the inmates’ involvement, for instance, by changing the conditions of confinement and the ways inmates are selected.

**The Correlates of Compliance**

Organizations where coercion is relatively heavily relied upon and the modal involvement is intensely negative—high-security prisons, for instance—tend rigidly to be divided into two castes, the staff and the inmates, with little expressive contact between them and considerable intercaste tension and open conflict. Mobility from one caste to the other, in effect, does not exist. While one caste controls the other, like an occupation army, it does not, as a rule, provide leadership for the other. The two castes do not make a social whole, though they function within the limits of one organization. Their values are at least in part antithetical.

Organizations where normative power is relatively heavily relied upon and the modal involvement is intensely positive—many voluntary associations and the organizations that serve as the core of social movements, for instance—will tend to be integrated into one community, with many expressive contacts across the ranks, comparatively little interrank tension, and mainly latent conflict. Mobility up the ranks is comparatively common. There is a relatively high degree of value consensus among the lower and higher participants. Much leadership “flows” down the organizational structure.

Organizations that rely heavily on remunerative power are “in the middle.” The participants in such organizations are often divided into three or more “classes,” differing in socioeconomic background, education, and consumption habits; workers, supervisors, and management are the main ones. While most of the mobility is within each “class,” there is cross-class upward mobility. The relationships among the classes vary considerably from factory to factory and from office to office, but on the average, there is less of an expressive split than in coercive organizations and much more instrumental cooperation, but there is much less of an expressive community than in normative organizations. Employees tend not only to have leaders of their own but also to accept some leadership from supervisors.

Differences in compliance structure correlate with numerous other differences such as degree of consensus across the ranks, amount of cross-rank communication and frequency of communication blocks, and the status of lower participants’ leaders. In some instances, the relationship between the nature of the compliance structure and such correlates is linear, for instance, the level of cross-rank consensus. In other cases, the relationship is curvilinear, with the dimension—for instance, organizational scope (the degree to which the organization penetrates into various life spheres of the participants)—higher at the two ends of the compliance continuum than in the middle.

**International Application**

Compliance theory has been applied to international relations. It sees a coercive realm, in which the military forces of nations face one another; a remunerative one, in which nations exchange goods and services and capital and labor flows; and a normative realm, in which values and ideas flow across borders. G. William Skinner and Edwin A. Winckler applied the compliance theory to study the relations between the government and the people in China, finding that different goals required the application of specific kinds of power—and that cyclical applications of the three types of power could be discerned in Chinese history following the revolution. David A. Baldwin categorizes power by what he calls “means of influence,” including symbolic means, military means, economic means, and diplomatic means. David Lampton applied the compliance theory to his study of China, finding that it is useful for understanding and describing the “three faces” of China’s growing international influence. Lampton organizes his entire volume around the three kinds of compliance, arguing that regimes and other organizations should
be “compared and differentiated by the power they possess in various forms” (2008, p. 11), as well as their “preferred ‘mix’”—for China, what he calls its “might” (coercive power), “money” (remunerative power), and “minds” (normative power). Recently Joseph S. Nye Jr. employed this approach, referring to military, economic, and soft power.

*Amitai Etzioni*

*See also* Action Research; Leadership Practices; Organizational Commitment Theory; Role Theory; Social Power, Bases of

**Further Readings**


**COMPONENTIAL THEORY OF CREATIVITY**

The componential theory of creativity is a comprehensive model of the social and psychological components necessary for an individual to produce creative work. The theory is grounded in a definition of creativity as the production of ideas or outcomes that are both novel and appropriate to some goal. In this theory, four components are necessary for any creative response: three components within the individual—domain-relevant skills, creativity-relevant processes, and intrinsic task motivation—and one component outside the individual—the social environment in which the individual is working. The current version of the theory encompasses organizational creativity and innovation, carrying implications for the work environments created by managers. In this entry, the components of creativity and how they influence the creative process are defined along with a description of modifications to the theory over time. Then, after a comparison of the componential theory to other creativity theories, the theory’s evolution and impact are described.

**Fundamentals**

Creativity is the production of a novel and appropriate response, product, or solution to an open-ended task. Although the response must be new, it cannot be merely different; the nonsensical speech of a schizophrenic may be novel, but few would consider it creative. Thus, the response must also be appropriate to the task to be completed or the problem to be solved; that is, it must be valuable, correct, feasible, or somehow fitting to a particular goal. Moreover, the task must be open-ended (heuristic), rather than having a single, obvious solution (purely algorithmic). Ultimately, a response or product is creative to the extent that it is seen as creative by people familiar with the domain in which it was produced.

The componential theory of creativity was articulated by Teresa Amabile in 1983. A theory designed to be comprehensively useful for both psychological and organizational creativity research, it describes the creative process and the various influences on the process and its outcomes. Two important assumptions underlie the theory. First, there is a continuum from low, ordinary levels of creativity found in everyday life to the highest levels of creativity found in historically significant inventions, performances, scientific discoveries, and works of art. The second, related underlying assumption is that there are degrees of creativity in the work of any single individual, even within one domain. The level of creativity that a person produces at any given point in time is a function of the creativity components operating, at that time, within and around that person.

*The Components of Creativity*

In the componential theory, the influences on creativity include three within-individual components: domain-relevant skills (expertise in the relevant
domain or domains), creativity-relevant processes (cognitive and personality processes conducive to novel thinking), and task motivation (specifically, the intrinsic motivation to engage in the activity out of interest, enjoyment, or a personal sense of challenge). The component outside the individual is the surrounding environment—in particular, the social environment.

The theory specifies that creativity requires a confluence of all components; creativity should be highest when an intrinsically motivated person with high domain expertise and high skill in creative thinking works in an environment high in supports for creativity. Figure 1, from Amabile’s 1996 book, *Creativity in Context*, presents a simplified depiction of the theory.

**Domain-relevant skills.** Domain-relevant skills include knowledge, expertise, technical skills, intelligence, and talent in the particular domain where the problem solver is working—such as product design or electrical engineering. These skills are the raw materials upon which the individual can draw throughout the creative process—the elements that can combine to create possible responses and the expertise against which the individual will judge the viability of response possibilities.

**Creativity-relevant processes.** Creativity-relevant processes (originally called creativity-relevant skills) include a cognitive style and personality characteristics that are conducive to independence, risk taking, and taking new perspectives on problems, as well as a disciplined work style and skills in generating ideas. These cognitive processes include the ability to use wide, flexible categories for synthesizing information and the ability to break out of perceptual and performance “scripts.” The personality processes include self-discipline and a tolerance for ambiguity.

**Task motivation.** Intrinsic task motivation is passion: the motivation to undertake a task or solve a problem because it is interesting, involving, personally challenging, or satisfying—rather than undertaking it out

![Figure 1 The Componential Theory of Creativity](Image)
of the extrinsic motivation arising from contracted-for rewards, surveillance, competition, evaluation, or requirements to do something in a certain way. A central tenet of the componential theory is the intrinsic motivation principle of creativity: People are most creative when they feel motivated primarily by the interest, enjoyment, satisfaction, and challenge of the work itself—and not by extrinsic motivators. Because, as research has shown, salient extrinsic motivators can undermine intrinsic motivation, their presence or absence in the social environment is critically important. So, too, is the presence or absence of forces that can support intrinsic motivation.

The social environment. The outside component is the work environment or, more generally, the social environment. This includes all of the extrinsic motivators that have been shown to undermine intrinsic motivation, as well as a number of other factors in the environment that can serve as obstacles or as stimulants to intrinsic motivation and creativity. Research in organizational settings has revealed a number of work environmental factors that can block creativity, such as norms of harshly criticizing new ideas; political problems within the organization; an emphasis on the status quo; a conservative, low-risk attitude among top management; and excessive time pressure. Other factors can stimulate creativity such as a sense of positive challenge in the work; work teams that are collaborative, diversely skilled, and idea focused; freedom in carrying out the work; supervisors who encourage the development of new ideas; top management that supports innovation through a clearly articulated creativity-encouraging vision and through appropriate recognition for creative work; mechanisms for developing new ideas; and norms of actively sharing ideas across the organization.

An Example: E Ink

The story of the invention and early development of the first stable electronic ink serves as an interesting illustration of the components of creativity in an organization. In this instance, two organizations were involved: the Media Lab at the Massachusetts Institute of Technology (MIT) and E Ink, the company that was founded to develop and commercialize the product. Although many people have never heard of this company, most are familiar with the first e-readers, which relied on this product to produce the images of words on the screen: the Sony eReader and the Amazon Kindle.

The devices, marvels of the first decade of the 21st century, used a technology that was notably different from anything that had come before. Once the image was produced by electrical charges moving tiny black and white microcapsules of ink, the image remained stable without drawing additional power. Moreover, the image required no backlighting and could be viewed clearly at any angle—much like words on paper. These two innovative features were unmatched by other electronic inks available at the time.

The concept for this type of e-book, and the original idea for the microcapsules, came from Joe Jacobson, an MIT Media Lab physicist. Jacobson’s domain expertise in physics combined with the domain expertise of the two students who worked with him to develop the ink. Barrett Comiskey and J. D. Albert brought their respective skills in the domains of networks and mechanical engineering to the task, gaining expertise in chemistry, optics, and electronics as they went along. Given the responsibility of carrying out most of the experimentation in the lab, Comiskey and Albert relied on their creativity-relevant processes to take a rapid-iteration Edisonian approach; they experimented with multiple variables with great frequency as they attempted to zero in on the correct formulation. From the summer of 1995, when Jacobson had the initial idea, through January 1997, when Comiskey and Albert created the first working prototype, the three were fueled by a strong intrinsic motivation to develop something both astonishing and practical.

The environment of the MIT Media Lab was highly conducive to the team’s work. Housing physical and social scientists from a wide array of disciplines, the lab fostered cross-pollination of ideas. There was a high degree of psychological safety, where people spouted “wacky” ideas without fear of ridicule. Moreover, a range of resources facilitated experimentation. Finally, even undergraduates in the lab enjoyed a great deal of autonomy to follow their hunches.

The Components and the Creative Process

As depicted in the figure, all four of the creativity components influence the creative process. The process consists of several subprocesses: analyzing and articulating the exact nature of the problem to be solved, preparing to solve the problem by gathering information and improving any required skills,
generating ideas for solving the problem, testing or validating the chosen solution, and communicating that solution to others. This sequence is not rigid; the subprocesses can occur in any sequence and will often recur iteratively until a creative outcome has been attained.

Consider again the example of E Ink. Jacobson was relaxing on a beach one day in 1995 when he finished the book he was reading and realized that he had no additional reading material. This problem identification initiated the creative process. Jacobson spent the rest of the afternoon coming up with the basic concept of an electronic book that would wirelessly receive a book’s contents in digital form and translate those electrical impulses into images using two-toned conductive particles. This response generation was the first in a long series of ideas required for the invention. Jacobson’s preparation, which enabled this idea, included his entire scientific education. Comiskey and Barrett drew on their own preparation in math and engineering and then supplemented that with additional learning in related areas—throughout the entire time they were generating and trying out new ideas in the MIT Media Lab.

Repeatedly, over the months they worked on the problem, Comiskey, Albert, and Jacobson would test, and fail to validate, an idea. Sensing that they were getting closer, however, they entered into the process again. Repeatedly, they came up with other ideas to try. Occasionally, they even partially reconceptualized the problem they were solving. When, at last, they had their working prototype, they communicated their success to potential investors whose resources they needed to develop an actual product. The company that they founded, E Ink, brought in more individuals with their own blends of domain-relevant skills, their own creativity-relevant processes, and their own high levels of task motivation. In many ways, the founders also re-created the work environment of the MIT Media Lab that had so strongly facilitated their own initial creativity.

Evolution

The componential theory of creativity was originally articulated in 1983 by Teresa Amabile as “the componential model of creativity.” It has undergone considerable evolution since then.

In 1988, Amabile published an extension of the theory to encompass both creativity and innovation in organizations. The basic model of individual creativity stayed the same, but the assumption was added that the same four components influence the creativity of teams working closely together. More importantly, a parallel set of components was proposed for innovation. According to the expanded theory, innovation depends on (a) resources in the task domain (analogous to domain-relevant skills at the individual level), (b) skills in innovation management (analogous to an individual’s creativity-relevant processes), and (c) motivation to innovate (analogous to individual task motivation). These components constitute the work environment impacting individuals and teams.

In 1996, Amabile published a revision of the original model of individual creativity, in a book that included updates by doctoral students and research associates Mary Ann Collins, Regina Conti, Elise Phillips, Martha Picariello, John Ruscio, and Dean Whitney. Research conducted in the first decade after the theory’s publication suggested an important modification of one of the theory’s most basic tenets: the intrinsic motivation principle. Although many extrinsic motivators in the work environment do appear to undermine intrinsic motivation and creativity, some may not. If rewards or other motivators are presented in a controlling fashion, leading people to feel that they are being bribed or dictated to, the undermining effects are likely to occur. However, if rewards confirm people’s competence (for example, by recognizing the value of their work) or enable them to become more deeply involved in work they are excited about (for example, by giving them more resources to do the work effectively), then intrinsic motivation and creativity might actually be enhanced. This process is termed motivational synergy.

In 2008, with Jennifer Mueller, Amabile published an additional modification of the theory based on new empirical evidence that the affective state can significantly impact individual creativity. In this modification, affect, which can be influenced by the work environment, in turn influences creativity-relevant processes.

Importance

Recognized as one of the major theories of creativity in individuals and in organizations, the componential theory has been used as a partial foundation for several other theories and for many empirical investigations. Amabile’s earliest descriptions of
the theory, in a 1983 article and a book the same year, have garnered nearly 2,000 citations in the academic literature. Of all of the theory’s tenets, the most heavily disputed has been the intrinsic motivation principle. However, the majority of studies testing that principle have supported it—particularly when the notion of motivational synergy is taken into account. Although certain aspects of the theory remain unexplored empirically, research generally supports the inclusion of all three intraindividual components as well as the socioenvironmental component.

The Componential Theory in Context

The componential theory’s basic elements, and the creative process it describes, are similar in the aggregate to other theories of creativity in both psychology and organizational studies, although with different emphases and somewhat different proposed mechanisms. At their core, all contemporary scholarly theories of creativity rely on the definition of creativity as a combination of novelty and appropriateness. Most theories describe a process by which an individual produces creative ideas, and most (but not all) include both skill and motivational elements. Some include the social environment.

The componential theory is distinctive in several respects: (a) its relatively comprehensive scope, covering skills and motivation within the individual as well as the external social environment; (b) its specification of the impact of the components at each stage of the creative process; (c) its emphasis on the social environment and the impact of that environment on the individual engaged in the creative process—particularly the individual’s intrinsic motivation. Moreover, unlike other psychologically based theories of creativity, the componential theory was expanded to describe the process of organizational innovation; this expansion was based on a definition of innovation as the successful implementation of creative ideas within an organization. Thus, in later instantiations, the theory became truly multilevel, encompassing creativity in single individuals, teams, and entire organizations.

One shortcoming of the componential theory, as applied to organizations, is its focus on factors within an organization. Its failure to include outside forces, such as consumer preferences and economic fluctuations, limits the comprehensiveness of the theory in its current form. Moreover, the theory does not include the influence of the physical environment on creativity. Although recent research suggests that the physical environment has a weaker influence on creativity than the socio-organizational environment, the effect is still measurable.

Application in Organizational Settings

Perhaps most importantly for practitioners, many managers have relied on tools and techniques developed from the theory to stimulate creativity and innovation within their organizations.

The theory applies to any realm of human activity, with the basic components and processes and their mechanisms of influence remaining the same. However, certain elements of the model are likely to be particularly distinctive in organizations. The work environment component in organizations contains features such as team dynamics and top management behaviors that are unlikely to be as important, or even present, in nonorganizational settings. And it is likely that the creative process differs across realms of activity. In organizations, for example, the ways in which people identify problems or validate possible solutions are likely to be quite different from the ways in which those activities are carried out in the arts or in basic science laboratories.

Of the three intraindividual components, intrinsic motivation should be the most directly influenced by the work environment. (See Figure 1.) However, it is also important to note that the work environment undoubtedly has effects on domain-relevant skills and creativity-relevant processes, in addition to its effects on intrinsic motivation.

Teresa M. Amabile

See also Brainstorming; BVSR Theory of Human Creativity; Innovation Diffusion; Interactionist Model of Organizational Creativity; Investment Theory of Creativity; Psychological Type and Problem-Solving Styles

Further Readings

Conflict Handling Styles

Conflict handling styles are behaviors that people use when they are involved in disputes with others. Conflict handling styles are sometimes called conflict strategies, conflict tactics, or conflict modes. People have preferences and tendencies to use certain conflict styles across different situations. Sometimes, differences between people (e.g., personality, sex, culture, moral development, emotional intelligence, social values) are related to the tendencies to certain conflict styles. However, managers can use any one of a variety of conflict styles that will be most effective given the circumstances. The fundamental aspects of conflict handling styles are described in the next section. It is also shown that thinking about conflict styles has evolved over time and how conflict styles continue to be an important part of management theory.

Fundamentals

The best approach to understanding conflict handling styles is to first understand conflict, then conflict handing, and then conflict management.

Conflict

Conflict exists in situations where one person or group wants something that may be different than what another person or group wants. In the conflict literature, the words party or parties refer to individuals or groups of people involved in conflict. Conflict exists because two or more parties engage with each other over their differences. There are many situations in the workplace where conflict can arise. For example, conflicts can arise over differences of opinion about how to allocate resources, the level of pay increases, who should be promoted, and so on. In the industrial relations tradition, conflicts arise between employers and labor organizations representing the workers. However, conflicts can also arise between employers and employees even when there is no labor union present. Moreover, conflicts can arise among and between managers at the same or different levels in the organization and among and between employees themselves.

Conflict Handling

Organizations are interested in finding ways to successfully handle conflicts. Sometimes, this is called conflict management. Negotiation is one process that can be used to handle or manage conflicts. In negotiation two or more parties voluntarily attempt to reach an agreement to resolve their differences. However, negotiation is a conflict management process but not a conflict handling style. Negotiation is a process during which conflict handling styles will emerge and be observed. Some negotiators may adopt one conflict handling style, and other negotiators may adopt another style.

Conflict Handling Styles

Conflict handling styles are best described as tendencies to engage with others in a particular way. For some scholars, conflict styles are thought of as ways in which parties communicate with others. However, conflict styles can also include nonverbal messages and strategies and tactics that go beyond
interpersonal communication. Often, individuals tend to use the same conflict styles across situations and in encounters with different people. However, they can also choose to use different conflict styles in different situations. In fact, experts suggest that certain conflict styles should be used in some situations but not in others.

Although there are several different ways to measure conflict styles, the different methods tend to be based on the same or a similar two-dimensional theoretical perspective. The working definitions for the two dimensions in this perspective are most often derived from the early work of Robert Blake and Jane Mouton. That work theorized that individual management styles could be characterized by two dimensions: a concern for people and a concern for production. Later, those two dimensions morphed into two different concerns: a concern for self and a concern for others. Individuals can have varying degrees of concern (ranging high to low) about the levels of outcomes that they themselves will receive from the dispute. Those with high concern about their own outcomes will care a lot about what they will receive when the dispute is resolved. They tend to be assertive and aggressive. Those with low concern about their own outcomes care very little about what they will receive when the dispute is resolved. They tend not to be assertive or aggressive. Individuals can also have varying degrees of concern (ranging from high to low) about the levels of outcomes that the other person will receive from the dispute. Those with high concern about their own outcomes will care a lot about what they will receive when the dispute is resolved. They tend to be cooperative and accommodating. Those with low concern about the outcomes of others care very little about what the other person will receive when the dispute is resolved. They tend to be uncooperative and aggressive. The dominant perspective of conflict styles used by scholars conceptualizes conflict along these two dimensions—(a) concern for outcomes for self and (b) concern for outcomes for others—to identify five distinct conflict styles. Varying terms have been used to describe these five styles, including contend, avoid, compromise, accommodate, and collaborate, which can be summarized using the first letters of each word (CACAC).

**Contend** (also called contending, competing, forcing, dominating, win-lose). In this conflict style, individuals strive to get what they want, with little or no concern for the other party in the conflict. They are contentious and engage in competitive behaviors and tactics trying to force the solution that they want by dominating the interaction with the other party.

**Avoid** (also called withdrawing, inaction, avoiding, or lose-leave). In this conflict style, individuals seek to withdraw from or avoid the conflict by not dealing with the other person. They do so even though this may mean that they themselves will not benefit from the dispute. Neither they nor the other party receives a good outcome.

**Compromise** (also called compromising or sharing). In this conflict style, individuals make concessions and give in on some things in exchange for concessions or compromises from the other party in the dispute. Although the individuals’ outcomes are not as high as they could be in either contending or collaborating styles, the parties are striving to achieve some form of mutually acceptable agreement.

**Accommodate** (also called accommodating, appeasing, obliging, smoothing, yielding, or yield-lose). In this conflict style, individuals yield or give in to the other party's interest and desires. They oblige the other party and appease them by giving them what they want, even though they themselves get very little or nothing in return.

**Collaborate** (also called collaborating, confronting, integrating, problem solving, or synergistic). In this conflict style, individuals work collaboratively with the other party in the dispute to create solutions which enable both parties to get more. The goal is that both parties can win. This conflict style can be thought of as the golden rule of conflict management since it is consistent with the idea that you should treat others as you would like to be treated.

Scholars have noted that these five CACAC conflict styles have been linked to two different conflict strategies: distributive and integrative. The linkage between conflict styles and distributive and integrative strategies is depicted in Figure 1. That figure shows a two-dimensional graph. The vertical dimension represents the degree of concern that one has for one’s own interests and outcomes. The more concern that a party has for one’s own interests and outcomes, the higher they are on the graph.
The horizontal dimension represents the degree of concern that one has for the interests and outcomes of the other party in the dispute. The further to the right on the graph, the more concern one has for the other party’s interests and outcomes. Five CACAC conflict styles depicted on this graph represent the conflict styles that result from the combinations of the levels of parties’ concerns for their own and the other party’s interests and outcomes.

The dotted diagonal lines represent the integrative (win-win) and distributive (win-lose) dimensions. The Distributive dimension is depicted by the dotted line with two arrows at each end running from the upper left-hand corner to the lower right-hand corner. This dimension represents the degree to which one party wins and the other party loses in the dispute. Thus, if a party has chosen a contend conflict handling style, they are seeking to win for themselves while the other party loses, a win-lose situation. If they adopt a compromise conflict handling style, they would fall in the middle meaning that they would be willing not only to make compromises and get some of what they want for themselves but also to allow the other party to get some of what they want. If they adopt an accommodate conflict style, then they would give the other party what they want while receiving very little for themselves, a lose-win situation.

The Integrative dimension is depicted by the dotted line with two arrows at each end running from the lower left-hand corner to the upper right-hand corner. This dimension represents the degree to which both parties win. Thus, if a party has chosen a collaborative conflict-handling style, they are seeking to win for themselves and also for the other party. This would be considered a win-win situation. If they adopt an avoid conflict style, then neither party receives very much from the dispute, a lose-lose situation.

Evolution
An understanding of conflict styles can be addressed from two perspectives: measurement and normative. From the measurement perspective, conflict styles are viewed as categories of strategies or tactics that can typically be summarized into two, three, four, or five styles. Each of these styles can be thought of as multifaceted groups of behaviors that represent that particular conflict style. From the normative perspective, conflict styles can be evaluated in terms of the degree of appropriateness given a particular situation. Both the measurement and normative perspectives are discussed below.

Measurement
The earliest measures of conflict styles tended to focus on two or three styles (domination, compromise, and integration; cooperation and competition; nonconfrontation, solution orientation, and control). The 1980s saw the emergence of several models that included four conflict styles (e.g., yielding,
problem solving, inaction, contending). However, the most popular and dominant perspective today tends to include a version of the five conflict styles described above.

Early measures required individuals to fill out or respond to questions on a printed questionnaire. More recent adaptations of these questionnaires have enabled individuals to answer questions online. For both the printed and online versions, the responses that individuals provide are typically used to report their preferred or typical conflict styles. One of the earliest and most popular measures of conflict styles follows the dual concerns model. That measure is known as the Thomas-Kilmann Conflict Mode Instrument (TKI). It is widely used in organizational training and managerial development. It is a proprietary instrument, but it can be used by obtaining permission from the TKI’s publisher. It uses 30 questions that force respondents to pick one of two statements that they indicate are most like their own typical behaviors. Statements representing each of five conflict styles are matched in pairs with the other styles three times. A scoring metric is used to measure individual tendencies to engage in each of five conflict styles: competing, collaborating, compromising, avoiding, and accommodating. The proponents of this measure note that the forced choice format has the advantage of avoiding problems with social desirability bias by forcing individuals to pick between items. They also point out that the forced choice format was used to measure the relative frequency of the use of different conflict styles.

Another measure also followed the tradition of the dual concerns model and reflects concerns for self and concerns for others. The Rahim Organizational Conflict Inventory–II (ROCI-II) is also one of the most widely used conflict style inventories. Although it is proprietary, permission to use it can be obtained from its author. It has been repeatedly reported to have good psychometric properties (e.g., avoids range restriction, has good test-retest reliability, good Cronbach’s alpha internal consistency reliability scores, etc.) and therefore is often used in academic research. It uses five-point Likert response scale anchors ranging from 5 (strongly agree) to 1 (strongly disagree). It contains 28 questions that are used to identify preferences for conflict styles: dominating, integrating, avoiding, obliging, and compromising.

Other scholars also followed the dual-concerns model to develop a Dutch version of a conflict styles inventory (Dutch Test for Conflict Handling, or DUTCH) that was subsequently published in English as well. This instrument has the advantage of using either 16 or 28 items, and it avoids mention of hierarchical relationships between parties and thereby may be more adaptable to many situations. It is reported to have good psychometric properties. It measures five conflict styles: yielding, compromising, forcing, problem solving, and avoiding.

Though continuing the tradition of the dual concerns model, a different method was used to develop a more parsimonious conflict style measurement instrument. That instrument is called a Conflict Handling Best-Worst Scale (CHBWS). This measurement instrument asks individuals to choose between single items a number of times. The items represent different conflict styles. The items are matched with other items representing different conflict styles. The respondents are asked to identify which of the items are the best and worst descriptions of themselves. A formula is used to calculate a metric score for each of several conflict styles (e.g., avoid, oblige, integrate, and dominate). This scaling procedure is more parsimonious than other methods and takes less time to administer.

**Normative**

Prior to the 1980s, it was common for scholars to express a normative (perspective) preference for problem solving, or more collaborative, method as the best approach to conflict. More recent writings, however, stress that the situation will often dictate which conflict style is most appropriate. For example, it may not make sense to engage in problem solving when the other party is unable or unwilling to cooperate because of their current emotional state. Alternatively, in some situations, the issue may be relatively less important to you and therefore not worth fighting about it. In these situations, the best conflict style may be avoiding and not problem solving. Also, depending on the circumstances, competing or forcing might be the best conflict strategy. Thus, a better approach would be to strategically choose the particular conflict style that is most appropriate given the circumstances.

The process called principled negotiations made famous by Roger Fisher and William Ury can be
linked to conflict styles in several ways. First, the principled negotiation method encourages parties to focus on interests and not positions. Conflict styles can be linked to interests of self and other as discussed above. Second, the principled negotiations method encourages parties to invent options for mutual gain. This is consistent with the collaborate conflict style. Third, parties often become frustrated or angry with their negotiation opponents, and this causes them to compete when they might be better off using a different conflict style. The problem of negative emotions can be avoided by following the principled negotiation methods of separating people from the problem and using objective criteria. When that happens, it may be more likely that parties will engage in a collaborate or compromise conflict style.

Thus, it is clear that conflict styles will continue to be an important topic in the management literature well into the future.

Conflicts, both large and small, are frequent occurrences in the modern workplace. Therefore, the conflict styles model can help modern managers in many ways. First, managers should begin by recognizing that there is more than one way to deal with conflict. Understanding that there are different conflict styles can help managers to better deal with conflict. Thus, it may not always be best to compete or collaborate in every situation. On the other hand, sometimes competing or avoiding may be the best conflict style to use. Other situations may call for different conflict styles. Second, managers should become proficient in using different conflict styles so that they broaden their personal repertoire of managerial tactics. This will enhance their own personal competencies and enable them to effectively choose and use the best conflict style in any given situation. Third, recognizing that there are different conflict styles will enable managers to recognize the styles that are being used against them by others. When managers understand what styles they are facing from their opponents, they will be better able to choose how to effectively respond.

Following are several examples of how managers can benefit by choosing to use the best conflict style. Sometimes, encounters with subordinates will call for the use of collaborative win-win conflict tactics. This could occur during negotiations over wage and benefits. A collaborative solution that meets the interests of both the employer and employees could be to switch from a fixed wage or merit-based pay system to pay based on performance incentives (e.g., commissions, bonuses) so that as performance improves, both the employer and the employees win. However, there may be other times when avoiding or competing are most appropriate. If employees are too demanding or too difficult to deal with, the employer may choose to avoid dealing with them by subcontracting the work to another organization. If employees are requesting something that has a low cost to the employer but is important to employees, such as employee suggestion systems and employee recognition programs, it may be best to simply accommodate the employees’ interests and give them what they want. Managers can also use different conflict styles during conflicts with other managers, customers, suppliers, or any stakeholder group. The
The core idea in contingency theory is that there is no one best way to lead people or to design an organization including its structure and processes. Rather, the central premise is that the choices which are made must fit the situation faced. This central idea is critically important to leaders and managers who make such decisions, as well as to the scholars who study leadership and organizations. It significantly informs the way they should think about these matters. In essence, they need to consider what actions will fit the situation they confront. The balance of this entry, will explain the basic ideas of this theory and a few of the several variants which have evolved since its introduction in the 1960s, as well as its impact on management theory and practice.

Fundamentals

As the theory was introduced and developed in the 1960s and 1970s, it had two fundamental premises. The first was that a contingent approach was a superior way to understand issues of organization and leadership compared to prior theories which argued that there was one universal approach to such matters (see, for example, Henri Fayol, Lyndall Urwick, or James D. Mooney and Alan C. Reiley). Because the basic contingency idea was investigated and proposed by many different scholars investigating different leadership and organizational phenomena, the variables identified as important were heterogeneous. This was true with respect to those that were subject to managerial or leadership choice, as well as those variables upon which such choices were contingent.

Two examples illustrate this point. First is the work of Tom Burns and G. M. Stalker. While investigating manufacturing companies in Scotland, they noted that successful firms that were facing conditions of high certainty had organizations that they characterized as mechanistic (formalized structures and procedures, which facilitated the needed routines). However, successful firms that faced conditions that were uncertain (often requiring innovation) had organizations that Burns and Stalker labeled organic (less formality of structures and processes). Thus, in their view, the key determinant of organizational form was the uncertainty the organization faced. The appropriate organizational characteristics to consider were the extent to which the organization was mechanistic or organic.

A second example is the work of Fredrick Fiedler in the United States. It was Fiedler who first used the term contingency in describing his theory of leadership. He had used an instrument he developed to study leadership of groups and group performance under a variety of conditions. The conditional factors he looked at were the simplicity or complexity
of the task, the preexisting conditions of feelings between the group and the leader in terms of liking or disliking, and the amount of traditional power available to the leader. Without going into detail, his principal finding was that different leadership styles were more effective under different group conditions.

These are but two of the early examples of contingency theory (see Organization and Environment, chapter 8, for examples of others). This early work was rapidly followed by other studies using the basic contingency approach. For example, in the realm of leadership, there were studies by Victor Vroom and by Robert Tannenbaum and Warren H. Schmidt, which are discussed below. Similarly, the examination of contingent organizational forms was expanded by the work of Joan Woodward and James D. Thompson. To underscore the diversity of factors which these studies identified as important, Woodward focused on the contingent relationship between manufacturing technologies and organization, and Thompson focused his work on the impact that different types of interdependence among subsidiary units had on other aspects of effective organizations.

While in retrospect all of these individual research efforts can be seen as contributing to what we call today contingency theory, the connections among this stream of work was first made in Organization and Environment. In this seminal book, Paul Lawrence and Jay Lorsch first reported on their study of the relationship between the environment and organizations of each of 10 businesses and its connection to business performance. The basic finding was that there was a contingent relationship between the extent to which each business had achieved both the needed differentiation between functional units and the necessary integration among them and business performance. For example, the plastic businesses which were involved in developing new technology needed both greater differentiation among their units, which ranged from research to manufacturing, and tighter integration among them. The study also explained the manner in which processes of conflict resolution and influence contributed to the fit between organizational form and environmental characteristics, such as uncertainty.

While many considered this work important because of the light it threw on matters of organizational design, it was significant also because it recognized that a contingency theory was emerging to replace the earlier universal theories about leadership and organization. Without using Thomas Kuhn’s term paradigm, the authors in their review of preexisting theory indicated that there was indeed a new paradigm for thinking about such matters.

This brief history of the foundations of contingency theory reveals first of all the primary commonality among these studies. The appropriate leadership or organization was contingent. Where there was not so much agreement was in the identification of the contingent factors and the choices to be made. In many of these studies and in the general understanding of the theory that has evolved over time, uncertainty of the task or the environment is often identified as the key contingent variable. However, as explained earlier, the different studies in fact also pointed to other contingent conditions. Similarly, while the leadership studies usually identified a continuum of directive to participative leadership style as the behavioral dimension appropriate to different contingencies, they were less uniform in identifying the contingent factors. Similarly, the studies of organizational form identified a wide variety of relevant environmental factors (uncertainty, environmental complexity, type of interdependence, etc.) and different organizational characteristics.

This meant and still means that using contingency theory requires that those who would do so must think carefully about the relevant variables and relationships, which determine the choices they can and should make. In this sense, while it is a theory which seems far superior to the universal theories which preceded it, using it requires a careful diagnosis of the specific situation.

This complexity of application is derived from the fact that the different approaches to contingency theory all have a common root in the recognition that organizations are complex social systems. The behavior of organizational members is shaped by and shapes the nature of the system. But for the organization to succeed, it must be able to meet the demands of the environment in which it exists. If this seems complex, it is!

This underlying notion of organizations as social systems is not unique to contingency theory. It also underlies other recent theories of organizations, such as resource dependence and population ecology. While the later theories are focused on different aspects of organizations and/or use different metaphors to describe organizations, they share with
Contingency Theory

Evolution

In describing the fundamentals of contingency theory above, it was necessary to describe and explain its early history. The evolution of contingency theory has been hindered by the nature of the field of organizational behavior which has been its domain and which, as suggested above, is the study of very complex organizational systems. As the description of the early conceptions suggests, researchers and theorists who study organizational phenomena handle this complexity by being unconstrained in the use of concepts. Rather than using the concepts developed by others, they feel free and in fact rewarded for inventing new concepts. Thus, contingency theory has evolved, the underlying idea of alignment has persevered, and the concepts used have varied and multiplied. Take, for example, contingency theory applied to leadership. The original work was done by Fiedler. It was followed by studies by Tannenbaum and Schmidt and by Victor Harold Vroom and Philip W. Yetten. The later researchers chose to develop their own conceptions of leadership behavior and the variables which were determinants of effective leadership in different settings. In so doing, no attempt was made to build upon or refute Fiedler’s work. This is the norm for those who study behavior in organizations. The consequence is that there are competing concepts and frameworks for understanding various phenomena within the broad umbrella of contingency theory.

For example, Tannebaum and Schmidt saw leadership behavior on a spectrum from boss centered to subordinate centered. At one extreme, the boss made decisions and announced them, and at the other, the boss allowed subordinates to function within limits defined by themselves. The point on this continuum which was the best for effective leadership depended first on the leader’s own personality: his value system, his own leadership inclinations, his confidence in his subordinates, and his feeling of security in an uncertain situation. It also depended on forces in the subordinates: their needs for independence, their readiness to assume responsibility, their tolerance for ambiguity, their interest in the problem at hand, the strength with which they identify with the goals of the organization, the necessary experience to deal with the problem, and their expectations about sharing in the decision making. Finally, it depends on forces within the situation such as the type of organization and members’ expectations about participation in decisions affecting their work; the historical effectiveness of the organization; the problem itself, especially its complexity; and the pressures of time.

Like Tannebaum and Schmidt, Vroom and Yetten used a spectrum of leadership, from autocratic to consultative to group based in which the group decided for itself. The contingent variables which determined which style would be most effective were determined by answers to seven questions. While these factors are similar to those used by Tannebaum and Schmidt, they tend to focus more on the nature of the problem itself and less on the nature of the leader or her subordinates. Thus, although both pairs of authors are proposing a contingent relationship between effective leadership and the situation, the specific variables are different. Unfortunately, there has been no work to reconcile and further test these approaches. A similar situation exists in the contingent approaches to organization structure, as we explained above. Different researchers focused on different contingent variables, such as degree of uncertainty, type of technology, and type of inter-unit interdependence. Similarly, they differed on the organizational properties which, if well suited to these externalities, would lead to effective performance.

In essence, the big idea of contingency burst on the field of organization studies in the 1960s, and it persists 50 years later. The problem, however, has been that the only attempt to bring these various studies together into a more unified whole has been the theoretical work of Lex Donaldson. In the broadest sense, Donaldson sees contingency theory as saying that the effect of one variable on another depends upon a third. Thus, if one considers Organization and Environment, the performance of an organization (a) in a given environment (b) depends upon achieving the requisite differentiation and integration. Thus, in Donaldson’s view, contingency theory is about the relationship among organizational form, the organization’s environment, and its performance in that environment, which is consistent with Lorsch’s. However, contingency theory also applies to other aspects of organizational behavior, including leadership. Further, Donaldson’s approach, which is to try to marry contingency theory with
other theories—what he labels as organic theory and bureaucracy theory—may confuse the matter of what is contingency theory. According to Jay Lorsch, bureaucracy (with its roots in Max Weber's work in the late 19th century) was a universal theory—which, it was argued, applied to all organizations. In that sense, it is the opposite of contingency theory. As previously explained, organic theory, which Donaldson attributes to Burns and Stalker, is in Lorsch's judgment one of the earliest sparks of contingency theory. Treating it separately only complicates an understanding of the roots of contingency theory. In spite of these disagreements, Donaldson deserves immense credit for his efforts to explain contingency theory in a manner which he believes will stimulate its future development.

Importance

If one judges the importance of contingency theory in terms of the stimulation of major research studies using this framework, its impact would have to be assessed as modest. There have been few attempts to replicate the original studies just described or to test the theory with field studies of organizations. There are likely two reasons for this. First, scholars in organizations studies often believe they will be best recognized not for building on a prior work but for inventing new concepts. For academics, contingency theory signaled a new perspective on organizations. However, its impact has been moderated by forces in the profession that encourage proposing new theories rather than a systematic, cumulative extension of knowledge. The reasons for this are deeply rooted in the traditions of graduate studies and universities and are beyond the scope of this discussion. Second, the types of studies that led to the development of contingency theory are methodologically and practically hard to pull off. They require access to multiple organizations, the development of new research tools, and most importantly, the most important resource, the time of the researcher(s). For example, the research and writing of Organization and Environment required 4 years and at times the efforts of three scholars.

While there have been only limited attempts to launch new studies to refine and improve contingency theory, there are two other ways in which it has had significant impact. First, it has stimulated scholars studying different organizational settings looking for practical answers to view organizations from this perspective. The work of Christopher A. Bartlett and Sumantra Ghoshal in studying multinational companies is one such example; Rosaline K. Gulati's study of organizational design of large corporations is another. Jay Lorsch's work (with Tierney) studying professional service firms in the United States is another (Aligning the Stars), as is his investigation of corporate boards (Back to the Drawing Board, with Colin B. Carter). In all these examples and many others, contingency theory has been used as the lens through which to view organizational issues. What such work confirms is that contingency theory has become a practically relevant framework for understanding real managerial and organizational issues. Second, and perhaps the most compelling evidence of this fact, is the 7S model developed by the consultants at McKinsey & Company, which explicitly recognizes the importance of achieving an alignment between various internal organizational variables and company strategy for company success. This has since been incorporated in a host of other applied contingency frameworks, such as Robert Burgelman and Andrew Grove's strategy diamond framework, or, as it is sometimes referred to, “rubber-band” theory of alignment. Thus, what began as an academic theory has turned out to be an important practical tool.

This is undoubtedly one reason why, for example, Organization and Environment is one of the most widely cited books on organizational studies. Such citations and the studies mentioned above are evidence of what is the greatest importance and significance of contingency theory. Going back to its roots in the 1960s, it represented and still represents a paradigm shift in the way scholars and managers think about organizational theory. It is no longer adequate to look for one best way to solve a leadership, managerial, or organizational problem. One has to first recognize that, more often than not, “it depends,” and try to understand the situation from several perspectives then muster the necessary flexibility and appropriate competencies to invent a solution which fits the circumstances. This is from a pragmatic, applied perspective. In essence, contingency theory has become what Fritz Roethlisberger called a “walking stick” for managers to guide them as they make decisions. From this perspective, the precise variables are not as significant as the broad perspective.

Jay W. Lorsch
See also  Contingency Theory of Leadership; Expectancy Theory; Organizational Effectiveness; Organizational Structure and Design; Systems Theory of Organizations; Theory of Cooperation and Competition

Further Readings


CONTINGENCY THEORY OF LEADERSHIP

The contingency theory of leadership stems from Fred E. Fiedler’s extensive work on leadership effectiveness. He described how different types of leadership styles are required for different situations to achieve strong group performance. On the one hand, the theory posited three main contingency variables that shape favorability of the group-task situation for leaders in terms of how much influence or control they have over their followers; these are conceptualized along continuums of affective leader-group relations, task structure, and the leader’s position power. On the other hand, leadership style is revealed by how a leader views his or her least preferred coworker (LPC) and is assessed as task oriented or relationship oriented. When these factors are viewed together, the effectiveness of high and low LPC leaders is seen to vary based on the situation favorability—that is, leaders are most effective when their style fits the context. The contingency theory of leadership offers a midrange theory that is located between the universalist approach of “the great man theory” and individualist perspective with “everything depends.” Fiedler’s research findings created a significant shift away from universal trait theory’s “one best way” approach to a more relative, “it depends” approach that identifies the most appropriate leadership styles for different situations. Research on the contingency theory of leadership grew rapidly with Fiedler’s ideas making a significant contribution toward understanding leadership and inspiring additional contingency studies on different organizational phenomenon. Critiques and different research directions also arose as researchers looked to develop a more robust theoretical foundation to understand leadership and expand it into new frontiers. The following section will show highlights of Fiedler’s major ideas and major ideas related to the contingency theory of leadership and will show developments focused on leadership behaviors, contingency variables, and their contributions to management research and practical applications.

Fundamentals

Fielder developed the first systematic contingency model for leadership which utilized the idea of a leader’s least preferred coworker as a way of defining his or her leadership orientation. The contingency theory of leadership holds two important assumptions—(a) there is more than one best way to organize or behave and (b) any particular way to organize and behave does not apply in the same manner for all situations. An important premise of the contingency theory of leadership is that there is more than one way of leading to achieve positive organizational outcomes as contingency factors influence the need for different leadership behaviors. Fiedler’s earlier approach to leadership effectiveness centered on determining leadership behaviors based on how a leader viewed their LPC. A theoretical assumption is that a leader’s description of the LPC is a reflection of him or her and the leader’s natural, relatively stable leadership style.

Fit is an important idea in the contingency theory of leadership because the definition, whether explicit or implicit, shapes theory development, data collection, and statistical analysis for empirical studies. Fit is a multidimensional concept that can refer to
Contingency Theory of Leadership

(a) selection based on natural or managerial actions, (b) interaction based on linear relationship between context and design with impact on performance, and (c) systems based on internally consistent patterns of organizational context and structure to impact performance. The key is that fit between leadership style and contingency variables is positively related to leadership effectiveness and organization performance while a poor fit diminishes performance.

Leader Orientation and LPC Assessment

For Fiedler, leadership orientation is gauged with the Least Preferred Coworker (LPC) Scale assessment. To determine a leader’s orientation, the LPC assessment asks the respondents to think of the person that he or she works least well with or had the most difficulty in completing a task and keep the person in mind when responding to 16 eight-point pairs of opposing positive or negative terms to describe the person. Examples of adjectives used to describe the LPC include pleasant-unpleasant, friendly-unfriendly, considerate-inconsiderate, kind-unkind, nice-nasty, and others. The more positively a leader scores his or her LPC, the higher the total score that identifies one as high versus low LPC leader. The scoring is a simple addition of the ratings for each adjective. A high LPC leader is seen as considerate, permissive, and nondirective compared to a low LPC leader who is seen as controlling, managing, and directive. Later, Fiedler shifted theory development from a behavioral to motivational approach to leadership. The high LPC leader employs a relationship approach with concerns for gaining prominence and self-esteem to motivate employees through interpersonal relationships. As a result, the high LPC leader is identified as relationship oriented. The low LPC leader is identified as most concerned with being successful regarding task responsibilities and therefore labeled as having a task-oriented leadership style. The designations indicating relationship-oriented (high LPC score) and task-oriented leadership (low LPC score) styles are presumed to be relatively stable predispositions that do not easily change over time.

Situational Variables

Contingency variables arise from both organizational and interpersonal contexts. Fiedler’s leadership contingency model accounts for the group-task situation favorableness with three contextual variables—affective leader–member relations, task-structure, and leader’s position power. Combined with leadership orientation, the additional three contingency variables make up eight distinct types of situations for a contingency perspective of leadership. According to Fielder, the most important determinant of group-task situation, and the resulting impact on team performance, is the relationship between leaders and their followers. When leaders are liked and respected by followers, which inspires trust and loyalty, follow-through is more likely as compared with opposite sentiments, which can lead to apathy or, even worse, revolt under similar circumstances. The second most important dimension is task structure, which refers to the amount of precision in designing and organizing what and how tasks are completed. Four key elements of task structure that affect the favorableness of the situation are (a) degree of clarity in explicit job requirements, (b) variety in ways to complete tasks, (c) feedback of task results, and (d) existence of optimal task outcomes. Last, the dimension of leadership position power is the extent of authority and power a leader can leverage to direct, evaluate, reward, and discipline followers. Fiedler stated that the greatest level of group-task situation favorableness is a combination of good leader–member relations, highly structured tasks, and strong position power, whereas the least group-task situation favorableness is poor leader–member relations, unstructured tasks, and weak position power.

Contingency Relationship of Leader Effectiveness

In a nutshell, the central finding of Fiedler’s theory is that task-oriented leaders perform relatively better in either very favorable or unfavorable group-task situations whereas relationship-oriented leaders perform relatively better in situations of moderate favorability. The specifics of the contingency theory of leadership is based on a relational matrix by superimposing continuums of situation characteristics against measures of performance to trace the relationship with different leadership styles and thus delineate the scope of a theoretical model. Fiedler described eight situations as follows (Note: LMX = leader–member exchange):

Situation No. 1: Good LMX, Structured Task Structure, and High Position Power
Situation No. 2: Good LMX, Structured Task Structure, and Low Position Power
Contingency Theory of Leadership

Situation No. 3: Good LMX, Unstructured Task Structure, and High Position Power
Situation No. 4: Good LMX, Unstructured Task Structure, and Low Position Power
Situation No. 5: Poor LMX, Structured Task Structure, and High Position Power
Situation No. 6: Poor LMX, Structured Task Structure, and Low Position Power
Situation No. 7: Poor LMX, Unstructured Task Structure, and High Position Power
Situation No. 8: Poor LMX, Unstructured Task Structure, and Low Position Power

Multiple research findings indicated that low LPC leaders achieved positive outcomes in easy or difficulty situations such as shown in number 1, 2, or 8. High LPC leaders achieved positive outcomes in moderate situations such as in numbers 4, 5, and 6. A graphical representation of the eight situations employs increasing favorableness on the horizontal axis with the vertical axis mapping task-oriented to relationship-oriented leader style. A general upside down U-curve association is typically illustrated: starting on the lower left, the least favorable situations are best managed by task-oriented leaders; then, as favorability increases to moderate levels, there is an upward right shift of the curve to instead match relationship-oriented leaders; and finally, as favorability peaks, there is a downward right shift of the curve to again match task-oriented leaders.

Later reformulation of the contingency theory of leadership found that high LPC leaders acted in a task-oriented fashion in favorable group-task situations and in a considerate interpersonal manner in unfavorable group-task situations. At the same time, low LPC leaders acted with considerate interpersonal behaviors in favorable group-task situations but more structuring and task oriented in unfavorable ones. The findings from subsequent studies on the reformulation are mixed, but the developments have significant merit that makes a relevant contribution toward refining the model to better capture the underlying complexities of leadership behaviors.

Evolution

Contingency theory of leadership evolved from at least two significant influences. First, systems thinking shaped management research consideration of organizations as open systems. The concept of open systems drew attention to how contextual factors can impact organizations and, in turn, their leaders. This caused a fundamental shift away from established notions of the great man approach to leadership and its associated growing list of personality traits. Second, management researchers became increasingly skeptical about universal assumptions underlying just one best way for any theory. Fiedler's work stemmed from an industrial organizational psychology background. He had a heavy focus on seeking to understand leadership from data and evidence. Since the late 1960s, his contributions shifted attention from studying leadership traits and personal characteristics to the relationship between leadership styles and situational variables.

In the 1980s, Fiedler and Joseph Garcia built upon the earlier body of research on contingency theory of leadership by integrating two important components of intelligence and experience into cognitive resource theory (CRT). Leaders transmit their cognitive resources, such as intelligence and experience, embedded in plans, decisions, and strategies through directive behavior. Effective transmission is most effective under conditions of low stress and supportive group conditions. In particular, internal stress from the task or situation is more meaningful than from an external source.

Developing key concepts such as fit and context opened the floodgates to many other contingency frameworks and provided opportunities for contingency researchers to strengthen the theoretical foundation of leadership while at the same time expanding the number and scope of variables considered. The idea of fit in contingency theory evolved with expansions to related research streams on person-environment fit and person-supervisor fit. Also, the leader-follower congruence in personal characteristics developed with the notion of dyadic congruence in personality between a follower and a leader which leads to superior work outcomes.

The contingency theory of leadership inspired additional developments of ideas about the leader-member exchange (LMX). Leaders play an important role in shaping the relationship between employee personality and work outcomes. Recently, the dyadic relational approach is focused on the leader-follower behavioral interactions to examine their development process over time that leads to a unique relationship between the leader and each follower. Follower behaviors were accounted for as variations in the contingency relationship. Researchers began examining
relational characteristics based on the leader’s ability to interact with others. The research on LMX continues to grow with a variety of contingency variables related to role taking, role making, and role routinization. Hence, the contingent factors shift from an external contextual orientation to leadership and followership variables as contingency factors.

In addition to the contingency theory of leadership, Fiedler’s stream of research also inspired other contingency theories. Subsequently, Robert House developed the path-goal theory of leadership which identified contingent variables of leadership behavior that are (a) environmental forces identified in task structure to encompass task autonomy and task scope and (b) subordinate characteristics to encompass role expectations, role clarity, and satisfaction. Paul Hersey and Kenneth Blanchard developed situational leadership based on followers’ task-relevant maturity and psychological maturity. As subordinates increased in their task-relevant maturity, leaders faced a decreasing emphasis on task-structuring leadership behavior and more on consideration type behaviors. Bernard Bass and James MacGregor Burns described transactional leaders who focused on incremental routine task activities and transformational leaders initiated substantial organizational change. Transactional leaders tend to align more with organizations with a defender strategy that have stable environments to reinforce the existing structure, culture, and strategies. Transformational leaders fit more with highly turbulent and uncertain environments and require a prospector or analyzer strategy. The substantial developments of additional contingency theories related to leadership illustrate the significant influence of Fiedler’s work.

Importance

Support for the Theory

Over the last several decades, Fiedler’s work spawned hundreds of research studies. Early research on the development of the contingency theory of leadership found substantial support in numerous studies with leaders from different professions and industry settings. Research studies drew evidence from groups as varied as corporate presidents, department store employees, hospital supervisors, research chemists, supervisors in electronic manufacturer, large heavy-equipment machinery plant operators, meat cutters in supermarkets, skilled craftsmen, military leadership, educational administrators, and many others. Hence, Fiedler’s theory of leadership effectiveness demonstrated generalizability across many different sectors.

Research on the contingency theory of leadership also expanded into a number of related topics such as employee turnover, Maslow’s hierarchy of needs, stress in threatening situations, diversity in language and culture, heterogeneous versus homogeneous groups, organizational climate, interacting and co-acting groups, perceived task competency of the leader and reward dependency of subordinates as well as the interaction of these two, performance evaluation, and many others. Two important topics bear further elaboration. One, threatening situations and stressful conditions create additional pressure for leaders that may alter their normal mode of behaviors. In nonstressful situations, high LPC leaders demonstrated more task behaviors than low LPC leaders, while low LPC leaders demonstrated more interpersonal relationship behaviors. In contrast with stressful situations, high LPC leaders exhibited more interpersonal relationship behaviors, and low LPC leaders exhibited more task behaviors.

A second topic to note is the difference between interacting and co-acting groups. Interacting groups have members engaged in completing tasks with high coordination and interdependent responsibilities, while co-acting groups have minimal interactions and coordination. Examples include interacting groups, such as electronic engineering groups, compared to supervisors in different hospital units. Research findings indicated that the different situations with variations in group-task situation favorableness continue to be consistent for leadership effectiveness for both groups.

Challenges to the Theory

While many research studies found supporting evidence for Fiedler’s model of leadership effectiveness, there are criticisms of the theory and research. First, relationship-oriented and task-oriented leadership behaviors are positioned as dichotomous variables, but theoretical consideration is required to examine the two as independent variables from one another. The two are not necessarily opposite ends of a continuum but possibly two separate continuums. Some studies did not find the interpretation of LPC scores related to task versus relationship orientation. In addition, some studies use a sum total LPC score, while others employ an average LPC score. High
LPC scores could also be convoluted by greater cognitive complexity and intelligence, which is currently being explored with cognitive resource theory. Further, there is some debate around whether leaders have one primary, unchangeable style that must be fit to an appropriate situation or if (some) leaders can flexibly alter their style manifesting a range of task- or relationship-oriented behaviors depending on their assessment of the situation.

Second, another concern relates to the lack of consistency in the LPC assessment and the 18-item scale of leader position power across different studies. In some studies, Fiedler's scale for position power was substituted with organizational ranking. As a result, changes in measurement instruments make it challenging to achieve consistency in comparison across studies. Third, tests of statistical significance were frequently not applied to the correlations used to test the model because the number of observations for each of the eight situations tended to be small. Many studies have only three or four situations represented with only a relatively small number that tested for all eight situations of the model. Additional critiques include being too focused on short-run relationships, restrictive analysis of leadership process, lack of flexibility to address additional variables, and lack of integration with new variables.

Applications of the Theory

For practitioners, the contingency theory of leadership has important implications for leader assignments and leadership development. Managers need to diagnose the appropriate fit between leadership type and the needs of particular group-task situations in order to achieve optimal effectiveness. Given that Fiedler posited leadership style as relatively stable and unchanging—basically “fixed”—an important application lies in human resource management processes of attracting, selecting, hiring, and placing leaders with the appropriate orientation for their specific roles and/or adapting roles’ descriptions and requirement based on current leadership. That is, managers must match the leader with the situation either by (a) personnel moves: changing leaders to fit the situation-role at hand, or (b) job redesign: changing (or “engineering”) the situation-role itself to fit the leader at hand. However, if a range of leadership behaviors can be learned and mastered, then there are implications for developing leaders with the flexibility and dynamic skill-set to continually evaluate the degree of appropriate fit in order to adapt to varying group-task situations.

Diana J. Wong-MingJi

See also Cognitive Resource Theory; Leader–Member Exchange Theory; Path-Goal Theory of Leadership; Situational Theory of Leadership; Theory X and Theory Y; Transformational Theory of Leadership

Further Readings


CONTINUOUS AND ROUTINIZED CHANGE

Organizational change occurs when an organization makes a transition from its current state to some desired future state. In other words, change routinely occurs in the context of failure of some sort. Managing organizational change is the process
Continuous and Routinized Change

of planning and implementing change in organizations in such a way as to minimize organizational inertia, while maximizing the effectiveness of the change effort. Change has been traditionally divided between change that is episodic, discontinuous, and nonroutinized and change that is continuous, evolving, and routinized. Change is also said to be of a quantum nature when many elements change in a major or minor way within a small interval of time. It is discontinuous or revolutionary only when quantum changes radically shape many elements of structure. Change is incremental or evolutionary when it is piecemeal and gradual, that is, when only a few elements transform either in a minor or a major way. The focus of this entry is on the latter form of change which is defined as continuous and routinized change.

Fundamentals

In the domains of strategy and organization theory, change is traditionally modeled as a punctuated equilibrium process in which long periods of incremental movement are interrupted by brief periods of cataclysmic adjustment. However, most change in organizations results neither from extraordinary organizational processes, or forces, nor from uncommon imagination, persistence, or skill, but from relatively stable, routine processes that relate organizations to their environments.

The term continuous change is used to group together organizational changes that tend to be ongoing, evolving, and cumulative. Such change is often viewed as consisting of small adaptations that, having emerged from improvisation and learning, may or may not accumulate and that occur because systems cannot maintain stability. These small adaptations are often viewed as part of ongoing modifications in organizational processes and practices, but this does not mean that the small changes are necessarily trivial or that they always remain small.

The view of organization associated with continuous change is built around recurrent interactions as shifts in authority—as tasks shift, continuing development of response repertoires, systems that are self-organizing rather than fixed, and ongoing redefinition of job descriptions. Images of organization that are compatible with continuous change include those built around the ideas of improvisation and learning. Literature on improvisation leverages jazz as a metaphor to describe ongoing acts of adjustment that would permit the organization to be flexible while maintaining some degree of structural stability and routine. The image of organization built around the idea of learning is one of a setting where work and activity are defined by repertoires of actions and knowledge and where learning itself is defined as a variation in an organization’s response repertoire. Another important retention-learning mechanism is organizational routines defined as repeated patterns of behavior that are subject to change if conditions change.

One of the central issues regarding continuous change is that of continuity itself. Issues of continuity are associated with the concept of organizational culture. Culture is important in continuous change because it holds the multiple changes together, gives legitimacy to nonconforming actions that improve adaptability and adaptation, and embeds the know-how of adaptation into norms and values.

The level at which continuous change occurs provides a dimension for classifying theories about continuous organizational transformation. Incremental or continuous change can be firm level or industry level. Theories of continuous change at the firm level are termed adaptation theories, and they maintain that firms track their environments more or less continuously to adjust to them purposively. The two most common mechanisms of adjustment are the incrementalist approach and the resource dependence model. The former implies that strategists experiment with new products, structures, and processes. Successful variations are institutionalized in firms’ structural designs and product-market domains. The latter mechanism of organizational adaptation at the firm level is provided by the resource dependence model. Here, organizational adaptation to environmental uncertainty is reached through active organizational management of resource flows and interdependencies.

Models addressing how industries undergo continuous change are defined evolution models and comprise population ecology and institutional isomorphism. Both models contend that although individual firms are relatively inert, forces within the industry push firms to align to incremental changes which eventually increase the homogeneity of firms over time. The ability to change continuously is also a critical factor in the success of firms. Many firms compete by changing continuously. Rapid and
continuous change, especially by developing new products, is not only a core competence, but also it is at the heart of a firm’s culture. A classic case is Hewlett-Packard, which changed from an instruments company to a computer firm through rapid, continuous product innovation, rather than through abrupt, episodic change.

In conclusion, the key characteristic of continuous change is the assumption that revolutions are not necessary to accomplish organizational development. Episodic change is driven by inertia and the inability of organizations to keep up, while continuous change is driven by alertness and the inability of organizations to remain stable. Continuous and routinized change can be viewed as an ongoing mixture of reactive and proactive modifications, guided by purposes at hand, rather than an intermittent interruption of periods of convergence.

For managers seeking to achieve effective transformations within their organization, one possible approach is shifting their focus from “change” to “changing.” This would imply a switch from a static, event-paced to a dynamic, time-paced approach to change that addresses past, present, and future time horizons and the transitions between them.

**Cooptation**

The word *cooptation* has many definitions, but the most common refers to the election of representatives who, as a result, are absorbed or assimilated by the electing governing body. Cooptation is also used in management and organization studies to describe the influential processes that often lead to outcomes that are neither planned nor desired. Cooptation processes can, moreover, divert an organization's goals in ways that are objectionable to the organization's principals. The principals may be the organization's owners, founders, and/or community representatives who generally control the overall policy making. Typically, other organizational actors, for example, managers, employees, or various external partners, undertake the cooptation process, which may be either formal or informal. The American sociologist Philip Selznick is recognized as the primary developer of cooptation theory. This entry explains its foundation, development, and relevance today.

**Fundamentals**

Organizations are tools their founders use to achieve certain founder-defined goals. The root word for “organization” is the Greek word for tool: *organon*. However, for many and varied reasons, frequently organizations do not achieve their goals. Their goals may be unrealistic, their competition too stiff, and/or their resources inadequate. Another reason, and the one of particular interest here, is the influence that causes the organization to divert its focus from its original goals. Such diversions may be the result of the process of cooptation when some stakeholder, either external or internal, exerts influence over organizational policy.

There are two main types of cooptation: formal and informal. Formal cooptation may result when external stakeholders, for example, nongovernmental organizations or local communities, have representatives on an organization’s board of directors and can thus influence its policies. Informal cooptation may result when internal stakeholders, for example, professional groups, agents, or managers, sidetrack and/or reformulate organizational goals.

**The Tennessee Valley Authority (TVA) Case**

The theoretical concept of cooptation in management studies builds primarily on Philip Selznick’s...
Cooptation

classic 1949 book, *TVA and the Grass Roots: A Study in the Sociology of Formal Organization*. The U.S. Congress founded the Tennessee Valley Authority (TVA) in 1933 as part of Roosevelt’s New Deal. The purpose of the TVA was to address economic, social, and environmental development problems in the catchment area of the Tennessee River. The TVA was a new kind of legislative body based on democratic planning and grassroots participation by poor and underdeveloped regions that suffered from economic underdevelopment, soil erosion, deforestation, and malaria infection.

However, as Selznick described, the grassroots movement had only a modest influence on the TVA. Grassroots participation was instead used as a protective ideology for activities that were more influenced by the nearby land grant colleges and by the U.S. Farm Service Bureau. The former was given responsibility by the TVA for the project’s research and education; the latter employed its extensive network of agricultural agents to reach the farmers affected by the TVA programs. Because the interests of these external stakeholders were aligned with the vested and wealthy community interests, directly and indirectly, they exerted a significant influence on policy- and decision making in the TVA.

The cooptation in the TVA was both formal and informal. It was formal in that the external stakeholders held seats on the governing TVA body. It was informal in that some TVA officials had connections with these stakeholders. For example, one TVA executive was a former president of the University of Tennessee. Moreover, some professional groups, in particular the TVA’s own department of agricultural experts took an active role in the cooptation with their opposition to the public ownership of land that was a fundamental mission of the TVA. By this opposition, they showed their support for the wealthy farmers of the region.

Consequences and Implications of Cooptation

As an organization, to some extent, the TVA failed to fulfill some of its original goals: the support of farmers’ cooperatives and poor Black farmers and the protection of public recreational sites and wildlife areas. Instead, the TVA developed in the postwar period as a specialized utility in the energy sector. With its fifty or so power plants and hydroelectric dams, the TVA continues to be the largest public power utility in the United States after almost 80 years since its inauguration and despite many political controversies.

Although cooptation is generally regarded as an undesirable phenomenon, it can also have positive consequences for an organization. Through fostering commitment and strengthening legitimacy, cooptation may improve relationships and promote cooperation with various stakeholder groups. Thus, cooptation may be the necessary price to pay in order to gain the support of external and internal stakeholders. When Republican administrations criticized the TVA in the 1950s and 1960s, industrialists, bankers, and farmers on power-distributor boards vigorously defended its existence and its operations. Thus, the cooptation process moved in both directions.

One interpretation of Selznick’s TVA analysis is that organizational actors may take actions that not infrequently result in unanticipated consequences. Selznick’s study, which management scholars and commentators often cite, has brought an actor-oriented perspective to the research on theories on the structure-agency relationship. This perspective suggests that actors are subject not only to structural influence; often, they also reveal skills in agentic action. For students of management, Selznick’s book on cooptation helps us understand the difficulty in controlling organizations when managers, professional groups, and/or partners also bring their goals to organizations. The existence and outcome of such co-aptive processes deserves special investigation and attention by both management practitioners and management researchers.

Stefan Tengblad

See also Agency Theory; Circuits of Power and Control; Competing Values Framework; Cultural Values; Individual Values; Institutional Theory; Patterns of Political Behavior; Strategy-as-Practice

Further Readings


A broad management term that is often synonymous with what an organization does particularly well, core competence in its purest sense is a firm-specific collection of skills, insights, and capabilities that represent the product of long-term accumulated knowledge, organizational learning, and focused investment. Although most often associated with management researchers C. K. Prahalad and Gary Hamel in their 1990 landmark study on enduring, successful organizations to refer to those unique and hard-to-replicate knowledge-based assets that lay the groundwork for competitive advantage, the term core competence over the past two decades has become widely used in management jargon and in the popular press to mean almost anything from a profitable core business to a firm's particular way of doing something. As a result, application and use of this term has significantly deviated not only from the pioneering authors' original conceptual intent but also from established nomenclature used in the strategic management literature. This entry is designed to provide an overview of how the term fits within the context of recent research streams on the topic, while also examining some popular conceptions and uses of the term. The entry is divided into three sections: anatomy of a core competence, the theoretical evolution of core competence, and the contributions to management theory and practice.

Fundamentals

The origin of the term core competence is perhaps best associated with Prahalad’s and Hamel’s breakthrough examination of how select firms built very deep sources of competitive advantage that endured over time. Around the same time, an emerging management theory known as the resource-based view of the firm surfaced in academic studies of firm-based competitiveness. The resource-based view struck a responsive chord among researchers and practitioners because it argued that core competencies are a valuable firm-based resource that enables the organization to distinguish itself from its rivals in important ways. This perspective views each firm as a unique bundle of resources and assets, of which knowledge, skills, and capabilities are among the most important, durable, and less subject to competitor imitation. Although investment in physical assets and new technologies can provide an initial source of competitive advantage, building knowledge-based assets provides more sustainable advantage based on the firm's underlying capacity to learn and apply new insights and skills. In this sense, a core competence emerges from the culmination of a long period of learning and investment that creates an asset which enables the organization to innovate and compete effectively in the marketplace. As such, building core competencies based on knowledge and learning in turn influences the firm’s growth, evolution, and even its strategic choices. Some researchers have described this core competence—strategy linkage—as part of a larger evolutionary theory of the firm, whereby earlier competence-building efforts shape and guide the firm's subsequent growth paths.

Although there are numerous research papers that have developed various perspectives on core competencies, ultimately a core competence is composed of (a) the firm's knowledge base, (b) dynamic routines that lay the groundwork for strong firm capabilities, and (c) a high degree of “path dependence” that shapes the firm's evolution.

The Firm’s Knowledge Base

A number of researchers from the resource-based view have noted that firms are “repositories” (or “reservoirs”) of knowledge that lay the foundation for value creation. In fact, some academic papers have further refined and developed the idea that the economic basis of the firm depends on how well it creates and utilizes such knowledge to achieve distinction from its competitors. This “knowledge-based view of the firm” asserts that the depth of accumulated knowledge is the basis for sustainable competitive advantage and that differences in knowledge among firms can largely explain the differences in firm-level competitiveness. From this perspective, the nucleus of any core competence is a set of insights and knowledge that underpins how the firm approaches innovation of new products, processes, and technologies that build competitive advantage. Presumably, since each firm’s core
competencies remain distinct from those of its rivals, these assets help erect barriers to imitation from other firms. Over time, firm-specific knowledge and skills enable the organization to apply its core competence in new ways as market opportunities evolve.

In general, the firm acquires knowledge by learning from its external environment and by systematically developing internal insights gained through experimentation and experience. The concept of knowledge is exceptionally broad and can include everything from quality control practices to understanding customers’ needs to extremely intricate methods and techniques needed to engineer cutting-edge products and processes. New technologies in themselves, however, do not create competitive advantage; rather, they are the “seeds” that provide the direction for learning and absorbing new types of knowledge. It is important to note that not all types of knowledge contribute to building core competencies equally.

Generally speaking, firms possess two broad types of knowledge: explicit (also known as codified) and tacit. Explicit knowledge is that which can be written down, explained, and understood by anyone (inside or outside the firm). Explicit knowledge is “transparent” in the sense that it can be widely understood and disseminated anywhere (e.g., blueprints, basic product designs, circuit diagrams, recipes). Tacit knowledge, on the other hand, is highly dependent on organizational context—that is, it is learned and understood by people who work closely with it on a deeply personal manner. Tacit knowledge is insight and experience that is often highly context specific to the firm—in other words, it is deeply rooted in the firm’s practices and methods, interaction among members, and cumulative application of ideas to products and processes over time. For example, a particular way of defining and solving problems, craftsmanship, artisan skills, and mastery of a complex technique or method represent various examples of tacit knowledge. In its simplest sense, tacit knowledge is a combination of “know how” with “know why” and is gained through learning-by-doing, rather than through distant or casual observation. Thus, tacit knowledge is deeply rooted in the firm’s practices, methods, and interaction among members and is hard for nonmembers to understand, absorb, and duplicate. As a vital component of a firm’s core competence, tacit knowledge plays a major role in erecting barriers to imitation and thus building sustainable competitive advantage.

Dynamic Routines and Capabilities

The interaction of explicit and tacit knowledge is unique to each firm and drives the second major component of a core competence—that of dynamic routines and capabilities. Some management researchers have defined dynamic routines as recurring, interactive patterns of behaviors or practices within the firm that have become increasingly specialized and understood only by the firm’s members. In particular, firms cultivate dynamic routines as they steadily learn and refine their sources of knowledge (increasingly tacit) through “learning by doing” that becomes part of the firm’s social fabric. Consequently, dynamic routines represent the culmination of knowledge that is shared and embedded among people and groups within the organization, thus, rendering them context specific also. Thus, the firm’s knowledge and experience is then “imprinted” onto dynamic routines that provide the guidance and steps to accomplish important activities. Dynamic routines store accumulated knowledge and help the firm manage highly complex phenomena and in some ways become an automatic response mechanism, such as an organizational algorithm or heuristic, which enables the firm to perform multiple tasks. For example, endeavors such as product development, engineering, building customer intimacy, and quality management all represent value-creating activities—each of which is dependent on numerous dynamic routines to guide and coordinate the tasks of many people. Often, organizational members will be working with one another, working in ways that share ideas, insights, and even metaphors that are all but impossible for nonmembers to truly grasp. As such, dynamic routines are collective in nature, based on shared experiences, and therefore serve to shape many organizational processes.

Dynamic routines, in turn, give rise to a broader construct—that of dynamic capabilities. From the academic literature, dynamic capabilities represent an amalgam of dynamic routines that enable the firm to achieve a new strategic posture or configuration in the wake of environmental change. These capabilities reflect the firm’s long-term knowledge accumulation and evolution. Thus, dynamic capabilities
Core Competence

represent the total sum of the firm's dynamic routines that enable the organization to adapt to industry and market developments to preserve competitive advantage. Knowledge, accumulated and embedded in the firm's people and practices, gives rise to dynamic routines, which correspondingly provide the inputs for dynamic capabilities. These dynamic capabilities provide the substrate for core competence formation and refinement. Core competencies are the cumulative product of knowledge, routines, and capabilities. But competencies by themselves do not automatically confer a long-term advantage; the firm must invest considerable time and sums into organizational learning to reinforce and refresh the firm's knowledge base. While a firm's core competencies drive distinction from rivals, focused learning remains vital to maintain and upgrade the competencies' vibrancy.

Path Dependence

Core competencies are the result of investment and learning that evolved from previous time periods. The accumulation of knowledge and dynamic routines and capabilities thus reflect a highly path-dependent process. Path dependence means that firms develop their competencies over a long and specific pattern over time. This process suggests that had a firm undertaken a different path to learn and acquire its knowledge base in earlier time periods, then its core competencies would also have evolved differently. Therefore, competence-building efforts represent a continuous, ongoing, evolutionary process that directly link, past organizational learning efforts and accumulated knowledge from earlier time periods with the state of current core competencies. The strategic implication is that each firm, by cultivating its own unique path of learning and knowledge accumulation, will in turn shape and constrain its evolutionary growth path for the future.

This vital characteristic of path dependence has strong ramifications, especially since competence-building efforts produce an asset that is extremely specialized and durable. Since core competencies are a context-specific, firm-unique mixture of knowledge, routines, and capabilities whose value cannot be easily calculated by outsiders, they are also “opaque” in that it is difficult for competitors to imitate them as well. However, path dependence also suggests that the firm's organizational learning is likely to become more efficient over time as it is focused on new sources of knowledge related to the firm's competence base. A well-developed and established core competence enables the firm to better understand developments and new technologies related to its knowledge base than a firm that lacks a similar competence. Path dependence thus can enhance a firm's ability to search for new ways to improve its competence's application to future new products and processes.

Evolution

From Rudimentary Idea to a Pillar of Strategic Management

The central notion that an organization should devote its strategic planning and growth to those endeavors that revolve around a distinctive set of activities traces its roots back many decades, at least in the context of the modern management literature. The first stage of knowledge development on core competence has a strong exploratory tone to it. Perhaps first discussed at length by Kenneth Andrews in his pioneering work on the concept of corporate strategy, the compelling superiority of a core competence-driven strategy was empirically demonstrated by Richard Rumelt in his landmark 1973 study on corporate diversification strategy. In the early 1980s, the attraction of a competence-driven strategy again manifested itself in Peters and Waterman's 1982 study on excellent companies, whereby a key performance driver is the firm's "sticking-to-its-knitting" in developing long-range plans.

As the academic literature evolved toward rigorous and testable empirical analysis, researchers of a series of critical studies further analyzed and dissected corporate-level financial performance. Throughout much of the 1980s, numerous academic studies on corporate strategy and diversification (e.g., the seminal works of Robert A. Pitts, Richard Bettis, Michael A. Hitt, Robert Hoskisson, and others) tested and reinforced the central notion that corporate strategies based on a sustained and coherent pattern of shared resources and knowledge among business units contribute to superior financial performance. Along a similar vein, these researchers also discovered that firms' internal development of businesses offered greater opportunities to build and reinforce a core competence, as opposed to growth via external mergers and acquisitions.

The late 1980s and 1990s witnessed a further blossoming of academic studies as new theories spawned
a knowledge-based view of core competence and the firm. Perhaps first initiated by Hiroyuki Itami’s 1987 work on the pivotal importance of “intangible assets” and their contribution to sustained organizational performance, the core competence concept served as an integral part of the larger resource-based perspective of the firm. The confluence of Prahalad and Hamel’s 1990 study with the resource-driven view of Jay Barney triggered a number of invaluable papers throughout the next 10 years. Outstanding works by researchers such as Ingemar Dierickx and Karel Cool, Berger Wernerfelt, David Teece, Gary Pisano (to name just a few) contributed papers that share a common theme—attempting to deepen our understanding of how competences are formed and shaped over time, as well as to study the linkage between competence formation and key organization design parameters. Further incisive research introduced and assimilated a number of related organizational theories to expound on core competence, including tenets from organizational learning, systems thinking, and organizational inertia.

Core Competencies and Core Rigidities

As described earlier, the key characteristics of a core competence—knowledge, dynamic routines and capabilities, and path dependence—make this asset very specialized. A high level of specialization, however, also poses a significant risk that a core competence can become a “core rigidity.” In a 1992 seminal paper by Leonard-Barton, a core rigidity represents an overreliance on a capability, technology, methodology, marketing approach, or other former organizational strength that paradoxically can also become a hindrance to organizational change as the firm faces new environmental developments. This inability to adapt is known as organizational inertia. As such, because core competencies are deeply interwoven with the firm’s dynamic routines and social interactions among members, they can actually impede the learning of new sources of knowledge and skills, especially if new technologies, ideas, or product development methodologies are significantly different or “disruptive” to the firm’s existing core competencies. Path dependence that shapes and guides current knowledge accumulation also constrains learning about new technologies and opportunities far afield from the existing core competence. Existing core competencies “locked in” by path dependence also can “lock out” opportunities to learn new sources of knowledge. As inertia sets in, the value of existing core competencies can decline as rivals develop new sources of knowledge and capabilities that lead to future breakthrough products. If organizational learning efforts become increasingly focused on enhancing the firm’s existing core competencies, there is a correspondingly greater risk that the firm can be blindsided by subtle but serious changes in market demand, potential technological obsolescence, or other external challenges to its competitive advantage. Thus, management must strike a careful strategic balance between “exploring” new sources of knowledge that can become new future competencies and “exploiting” existing competencies along well-defined technological trajectories.

Core Competencies, Organizational Learning, and Alliances

Because core competencies are based on knowledge that is often highly tacit, each firm must engage in focused organizational learning that creates its own path dependent, differentiated accumulation of skills and sights. In general, organizational learning can occur through a combination of internal and external efforts. Examples of internal efforts include experimentation with new product designs, formal research and development (R & D) programs, continuous improvement initiatives, as well as the development of proprietary processes and patents that build distinctive sources of advantage. However, external learning through interfirrm relationships (e.g., strategic alliances, coproduction agreements) can prove just as valuable in helping firms learn new knowledge and competencies. Because many types of strategic alliances bring firms closer together to jointly develop new products and processes, they can also serve to transfer skills and insights between firms as well. Thus, strategic alliances can serve as vehicles for firms to absorb and internalize knowledge from their partners; external alliances work in tandem with internal developmental efforts to “parallel process” the flow of information and knowledge to accelerate competence-building efforts. Alliances can help a partner “short circuit” the learning process and time required to accumulate its own knowledge and skill set.

The long-term impact and risks of alliances to facilitate competence-building cannot be overstated. In particular, since tacit knowledge is embedded in the dynamic routines and social fabric of the firm,
strategic alliances can enable firms to learn their partner’s skills through day-to-day contact between managers and key technical personnel. Tacit knowledge cannot be learned through more distant, arms-length relationships, since it is opaque and requires learning by doing. Yet some firms will utilize strategic alliances in an apprentice-like relationship to get very close to their partner’s core competencies and to learn as much as they can, often from an unwitting partner. This kind of close and intimate contact generates very significant risks for a firm unaware of its partner’s strategic intent and desire to learn. Such close contact enables a partner to gain exceptional access and insight into another firm’s internal processes and dynamic routines. A firm’s opaque and unique knowledge base becomes “transparent” to a partner that is intricately involved with the firm’s operations and organizational processes. In the worst case situation, strategic alliances can ultimately result in one partner “hollowing out” another partner’s core competencies and technologies thereby leaving it completely dependent on the predatory partner. For example, many U.S. firms during the 1980s and 1990s ceded technological leadership to their Japanese and South Korean partners in such wide-ranging industries as consumer electronics, automobiles, robotics, machine tools, semiconductors, flat-panel displays, thin-film transistors, and imaging. U.S. companies, for the most part, viewed strategic alliances as convenient outsourcing arrangements from which to gain access to lower cost products and components; their East Asian partners viewed these relationships as opportunities to learn and upgrade their internal competence-building initiatives. Thus, firms that do not conceive strategic alliances as “races to learn” or “competence-based competition” are likely to find that their partners could learn more knowledge from them than they had anticipated. Companies can result in a shrewd partner becoming a direct competitor after it has absorbed and internalized the firm’s distinctive set of knowledge and competencies.

Importance

As noted from the above discussion, core competence captures a very rich, intricate, and complex theory underpinned by a resource or knowledge-based view of the firm. Throughout the past two decades, the term core competence has been used in numerous ways such that it has now become part of today’s modern business vernacular. In many instances, the term core competence has become almost synonymous with any number of different meanings. However, the term core competence conjures up a plethora of different concepts for the discerning management reader. For the academic audience, core competence has evolved into a bedrock of strategy management thinking, providing much “gravitas” for both construct development and empirical testing. One cannot think about core competence without considering other vital topics, including innovation, barriers to imitation, resource-based views of the firm, knowledge creation, and other related ideas.

For practicing managers, core competence in some organizations refers to those activities that they perform especially well, even if those activities may be more supporting rather than primary in creating value. Alternatively, core competence may denote profitability in other organizations; that is, a profitable product line or business unit is a core competence. In other instances, a core competence can refer to a large core business upon which senior management decides to refocus its efforts; correspondingly, noncore businesses are seen as peripheral and put on the block for sale. Similarly, core competence may also relate to a central technology or product platform used by an organization to develop specific types or lines of products. For example, high-technology firms look at semiconductors or software platforms as core competencies that spawn end products for customers.

For the academic, the strategic management field has become invaluably richer over the past three decades as new theories and empirical tests provide much discussion and a deeper understanding of organizational performance. Core competence promises to remain a vital field of research and theory development. In the business world, the cultivation and management of core competencies represent an ongoing strategic task for senior managers of any organization. This task requires long-term commitment and focus to build distinctive sources of competitive advantage. Core competencies are as much organizational (patterns of communication, social interaction among members, metaphors, group dynamics) as they are technological (processes, methods, technical specifications). Simultaneously, however, senior management should realize that core competencies built around accumulated knowledge can serve as core rigidities in the wake of environmental change. Erecting
barriers to imitation from competitive rivals can also erect barriers to learning new technologies and ideas for future growth.

David Lei

See also Competitive Advantage; Diversification Strategy; Dynamic Capabilities; Excellence Characteristics; Knowledge-Based View of the Firm; Organizational Learning; Resource-Based View of the Firm; Strategic Alliances

Further Readings


**CORPORATE SOCIAL RESPONSIBILITY**

The basic idea of corporate social responsibility (CSR) is that all businesses have some responsibilities to the societies in which they are licensed to operate that go beyond seeking financial wealth creation on behalf of the owners. At a minimum, businesses should behave ethically and obey laws unless there are sound moral objections to specific public policies. CSR is both a concept and a social movement. Continuing debate about CSR concerns the minimum mandatory requirements and maximum voluntary limits for responsibility activities rather than the basic idea of social responsibility. Even opponents of voluntary CSR accept that there are mandatory legal and ethical duties. They simply argue for those duties to be quite limited. CSR is not restricted to legally defined corporations but rather is synonymous with business social responsibility, or social responsibilities of business, for all enterprise forms. The broader term is reflected in Business for Social Responsibility (BSR), a global network founded in 1992, and the title of Howard R. Bowen’s seminal 1953 book emphasizing multiple “social responsibilities.” CSR is the label in common usage. Any concept of CSR is a theory of the proper relationship between business and society. How to specify content and test the theory empirically and apply the concept to business strategy and specific decisions is one of the central questions in management research and practice. This entry is structured as follows. The next section explains the fundamentals of the several theories of CSR. The subsequent section assesses the validity and impact of the theories of CSR.

**Fundamentals**

While businesses practiced aspects of CSR historically, origins of the formal CSR concept go back to Andrew Carnegie’s philanthropy proposal in his 1889 essay, “The Gospel of Wealth,” and a 1916 article by J. M. Clark in the *Journal of Political Economy*. The Harvard Business School dean W. B. Donham encouraged the idea from the late 1920s. An important exchange in the *Harvard Law Review* in the early 1930s between A. A. Berle Jr. and E. M. Dodd addressed strict fiduciary responsibility versus concern for multiple corporate constituencies. F. W. Abrams in 1951 and H. R. Bowen in 1953 captured the emphasis on social responsibilities of business that developed during the Great Depression and World War II.

Milton Friedman, an economist who received the 1976 Nobel Memorial Prize, launched in the early 1960s an academic counterattack on CSR. Friedman argued that publicly traded corporations should focus on financial wealth creation as the real social
Corporate Social Responsibility

responsibility of business. Voluntary CSR activities
infringe improperly on government responsibilities
and reflect the personal tastes of business managers
violating fiduciary responsibility. Private com-
panies have the same status as individuals to practice
altruism.

Subsequent CSR literature has been a debate over
what became an “essentially contested concept”
and efforts by CSR supporters to develop and test
a business case for CSR. The basic “pillars” of CSR
teorizing can be viewed as Archie B. Carroll’s pyra-
mid of responsibilities, the social contract theory
of business ethics introduced by Thomas Donaldson,
the stakeholder theory of the firm introduced by R.
Edward Freeman, and the corporate social perfor-
mance (CSP) model formalized by Donna J. Wood.
The CSP model embeds the CSR principle. Each pil-
lar has a separate entry in this encyclopedia.

The Carroll approach defines four responsibility
domains (ordered from base to apex as economic,
legal, ethical, and philanthropic) that can be related
to different kinds of stakeholders or corporate con-
stituencies. The economic and legal domains are
morally infused, such that CSR is always morally
principled in approach. U.S. corporation law has long
recognized a role for reasonable philanthropy; and
obedience to law should be a moral norm. Empirical
studies suggest that managers perceive these dimen-
sions as so ordered and weighted relatively approxi-
mately as 4:3:2:1 (i.e., proportions of 100%).

The scope of mandatory legal and ethical duties
is a continuing debate concerning the merits of rela-
atively free markets versus strong government regu-
lation and social expectations of business behavior.
Stakeholder activism helps to drive voluntary busi-
dess actions concerning philanthropy, environmental
sustainability, and human rights. This debate has
been sharpened recently by the global financial crisis
beginning in 2008. An important literature in recent
years has concerned whether the firm’s CSR reputa-
tion (good or bad) affects its financial performance.
Businesses may find that CSR involves profitable
or reputation-enhancing opportunities rather than
purely costs. If so, then CSR should be considered
an integral part of the firm’s strategy. This approach
links sustainable competitive advantage to CSR.
Empirical research reveals that firms combine eco-
nomic, legal, ethical, and philanthropic activities
in different ways. Kinder, Lydenberg and Domini,
a social choice investment advisory firm, evaluates
selected strengths and concerns for hundreds of pub-
licly traded firms.

Importance

Empirical research has focused on trying to establish
a reliable statistical relationship between CSR (and
CSP) and corporate financial performance. A gener-
ally negative relationship would support Friedman; a
generally positive relationship would support a busi-
ness case for CSR. Meta-analysis of some hundreds
of studies tends to suggest a neutral or mildly posi-
tive relationship. The absence of a strong business
case should not be taken as favoring Friedman. On
the contrary, there is no significant risk in CSR; the
real risk lies in reputation-damaging misconduct. A
recent study suggests the possibility of a curvilinear
relationship between CSP (or CSR) and corporate
financial performance. While a firm with low CSP
may have higher financial performance than a firm
with moderate CSP, a firm with high CSP likely has
the highest financial performance. This possibility
means that responsibility is a joint strategic and val-
ues choice, in which CSP and financial performance
may work together. A difficulty in empirical testing
is the wide range of possible CSR activities.

Despite the academic contest over CSR as a con-
cept and empirically testable theory, there has been
increasing institutionalization of CSR guidelines
and reporting. CSR is becoming a part of evolving
international norms. Many companies, especially
multinational firms, now voluntarily issue periodic
reports under various titles such as social responsi-
bility, corporate citizenship, sustainability, or social
impact. Such reports, typically unaudited pres-
ently, are open to charges by activists of highlight-
ing positive achievements, while underreporting
negative impacts. The United Nations (UN) Global
Compact, a voluntary association of companies
and other organizations, promotes 10 principles
concerning human rights, labor rights, environ-
mental sustainability, and anticorruption efforts.
The International Organization for Standardization
(ISO) 26000 standards provide guidance (not cer-
tification) for social responsibility activities and
reporting. The Global Reporting Initiative (GRI)
provides widely used reporting standards for sus-
tainability information in triple bottom line form
(economic, environmental, and social dimensions).
The Organisation for Economic Co-operation and
Development (OECD) issues OECD Guidelines for Multinational Enterprises and the UN Principles for Responsible Investment. There is a UN Convention against Corruption. The European Commission (EU) has been fostering voluntary CSR, interpreted as a combination of stakeholder participation and sustainability, as part of an EU strategy for growth and jobs. Irresponsibility can prove expensive to corporate wealth; and no company can in today’s world seriously assert nonresponsibility. The economic, environmental, social, and corporate costs (to several firms involved) of the Deepwater Horizon catastrophe in the Gulf of Mexico highlighted the point.

As a contested concept with proposed substitutes, CSR has no definitely agreed normative basis or universal definition. However, this condition is largely due to disagreements over the scope of CSR. Key positions advocate restricting CSR to legal and ethical norms, undertaking limited voluntary activities beyond such norms of strategic value to the firm, and broad responsibility to operate in the public interest. A recent reassertion of the Friedman position by Aneel Karnani combined a criticism of voluntary CSR with a call for strong external controls in the form of laws, ethics, and stakeholder activism. The minimum requirements are anchored still in Carroll’s pyramid, however interpreted. A financially sustainable company must obey the law and ethical expectations, meet the requirements of its key stakeholders (customers, employees, and owners), and undertake some reasonable set of philanthropic activities—especially those activities positively affecting its reputation with stakeholders. A specific problem arises in conflict of laws across countries. Positive law lacking a normative foundation is not necessarily superior to moral values of business executives and corporate stakeholders. Google operates under constraints in China to which its founders and corporate values are opposed.

Globalization of markets has driven much of the evolution in CSR practices and scholarship. With increased institutionalization and European Commission and United Nations attention, conceptualization, practice, and scholarship concerning CSR continues to evolve and expand. There has been an expansion of the content of CSR to include broadly sustainable development, environmental sustainability, and human rights especially in developing countries. The special representative of the UN secretary-general (SRSG) on business and human rights has submitted three reports to the UN Human Rights Council concerning a framework for CSR with respect to human rights. Civil lawsuits have been filed in U.S. courts by noncitizens against businesses under the U.S. Alien Tort Claims Act (ATCA) of 1789. An Ecuador court reached a multi-billion dollar judgment against Chevron concerning alleged pollution in the Amazon region by Texaco, which was acquired by Chevron. That judgment was appealed by Chevron to U.S. courts.

A recent body of literature has argued that corporate citizenship is superior to CSR as a label and a movement. Ideal citizenship and ideal CSR theories arguably have much the same content. Citizenship, essentially a metaphor, has the advantage of suggesting obligation similar to CSR but the disadvantage of suggesting a corporate citizen’s privilege to influence governmental policy in favor of business interests. There have been efforts by scholars to figure out how to combine concepts of CSR, corporate citizenship, business ethics, stakeholder management, and sustainability into a single integrated framework. The most recent version of mainstream stakeholder theory emphasizes entrepreneurial value creation in which economics and ethics are not separable dimensions. Some European scholars have applied the views of the influential German discourse philosopher Jürgen Habermas on law and democracy to CSR. That body of literature argues that firms have a duty to promote internal and external democracy and to help provide public goods where there is governmental incapacity especially in developing countries. This approach is in marked contrast to the conventional view that CSR means voluntary self-regulation by businesses.

Duane Windsor

See also CSR Pyramid; Fairness Theory; Integrative Social Contracts Theory; Stakeholder Theory; Triple Bottom Line

Further Readings
The word critical has, of course, a number of meanings. All research is critical in the sense that the researcher is observant and intolerant of weak argumentation, speculative statements, erroneous conclusions, and so on. Critical management studies (CMS), however, go far beyond faultfinding. Its task is the stimulation of a more extensive reflection upon established ideas, ideologies, and institutions in order to liberate from or at least reduce repression, self-constraints, or suffering. Critical research aims to stand on the weaker party’s side when studying or commenting upon social relations and organizational conditions involving dominance. There are other stories to tell about management than those emerging from a pro-managerial perspective. CMS is a broad field with no universally agreed-upon core or definition. Given the expanding powers of corporations, management, and leadership, the critical exploration of management as ideology, function, and practice is increasingly important. This entry will briefly account for CMS’s relationship to critical social theorists and traditions like the Frankfurt school, Jürgen Habermas, Michel Foucault and post-structuralism, and the history and development of CMS and then point at some of the research areas and key contributions and challenges for CMS, including its practical relevance.

**Fundamentals**

*The Task of CMS*

The central goal of CMS has been to provide inspiration for the creation of societies and workplaces which are free from domination, where all members have an equal—or at least reasonable—opportunity to contribute to the production of systems that meet human needs and lead to the progressive development of all. This sounds quite idealistic. However, the struggle to increase democratic accountability, reduce unnecessary suffering and control, and increase the space for discretion and thoughtful dialogue about goals and means of organizations through critical thinking and liberation from dominant, often taken for granted institutions, interests, ideologies, and identities is often at least a minor part of human life and organizational processes. The task for CMS is to support and strengthen this.

Studies have focused externally on the relation of organizations to the wider society, emphasizing the possible social effects of colonization of other institutions and the domination or destruction of the public sphere. Internally, they have explored the domination by instrumental reasoning, discursive closures, and consent processes within the workplace. Organizations are largely seen as political sites, thus, general social theories and especially theories of decision making in the public sphere are seen as appropriate.

People working in organizations are subjected to, and formed by, administrative demands for adaptability, cooperation, predictability, and conformity. We live in a thoroughly organized society, dominated by large corporations, and this creates particular kinds of subjects in a variety of subtle ways, both as employees and as consumers. The ideal of being well organized is at the core of organizational society.
In a society and working life thoroughly effected by management, everything from structures and strategies to work content, motivation, ethics, career, development, identities, and emotions are incorporated into management regimes where managers, aided by consultants and other experts (on anything from career counseling to testing to diversity to corporate social responsibility and equal opportunity) put strong imprints on human subjects being formed and regulated by management knowledge. CMS then concentrates on what is seen as the darker and often hidden sides of organizations and management. Critical perspectives reject the perhaps most common assumption—held by the public as well as most researchers—that organizations are only or even mainly in the business of producing socially valuable products and services and that management only exceptionally deviates from the norm of fulfilling positive social functions in the interest of most stakeholders. Organizational life and the outcomes of organizational work are far from always positive. Of course organizations contribute to material survival and affluence, job satisfaction and positive social relations, a sense of meaning, and personal development. They also often contribute to stress and bad health: They mean subordination and exploitation; they may encourage people into conformism, excessive careerism, and egoism; prevent them from “free thinking” and free speech; erode moral standards; create or reinforce gender inequalities, and so on. Many corporations in postaffluent society mainly contribute with goods and services that have a far from self-evident consequence in terms of contributing positively or negatively to the environment and human need satisfaction. Many companies are in high-pollution industries. Corporations regularly produce people with consumerist and materialist life orientations through appealing to motives and anxieties around status, self-esteem, and conformism. Fashion, beauty, and luxury industries could exemplify.

CMS operates with understandings of management and organizations being like mental or physical prisons, where formal control and engineering of values and identities lead to suppression. Power and domination, within organizations but also targeting customers, weaker organizations, and to some extent parts of society, are viewed as key elements of organizations. Management knowledge and practices, such as strategy and leadership, are viewed as discourses that say less about organizational reality or productively informed managerial practice than they function as legitimation of managerial status, interest, and privilege and reinforcement of inequalities between senior people and others.

Critical perspectives also reject the idea that problems normally can be resolved through “better management,” taking objectives and “noninstrumental” values for granted. Instead of expansion of technical solutions, issues are seen as calling for political and ethically informed action. Also, advocates of CMS argue that what is understood by gurus, the media, and conventional management theory as better management may create harmful social effects, such as highly disciplined employees and controlled consumers.

Ideology critique shows how specific interests fail to be realized owing partly to the inability of people to understand or act on these interests. CMS researchers’ interest in ideologies entails consideration of the difficulties of disadvantaged groups in understanding their own political interest, but it is more often addressed to limitations on people in general, challenging technocracy, consumerism, careerism, and exclusive concern with economic growth at the expense of other values, including ecological concerns and autonomy. Class conflicts and diversity of interests are acknowledged, but the focus is more often on how institutions, ideologies, and identities constrain broad groups of people.

**Research Areas of CMS**

CMS researchers have emphasized the narrow thinking associated with the domination of instrumental reason and the money code in organizations. Potentially, when wisely applied, instrumental reason is a productive form of thinking and acting. However, in the absence of political ethically informed judgment, critical reflection, and democracy, its highly specialized, means-fixated, and unreflective character makes it strongly inclined to also contribute to the objectification of people and nature and thus to various forms of destruction. This critique has focused on the phenomenon of managerialism; in other words, the celebration and overemphasis of management as a superior and significant force having close to a monopoly on establishing how organizations and work life should be.
structured and be aimed at and how problems can be resolved.

In the guise of technocracy, management knowledge has pretenses to neutrality and freedom from the value-laden realms of self-interest and politics. It celebrates and “hides” behind techniques and the false appearance of objectivity and impartiality of institutionalized sets of knowledge, bureaucracy, and formal mandates. Not surprisingly, technocracy is promoted by management “specialists” as they claim monopolies of expertise in their respective domains. Human resource specialists, for example, advance and defend their position by elaborating a battery of “objective” techniques for managing the selection and promotion of employees. Strategic management institutionalizes a particular way of exercising domination through legitimizing and privileging the “management” of the organization-environment interface, producing some actors as “strategists” and reducing others to troops whose role is to subordinate themselves and to implement corporate strategies.

Some salient areas of CMS are (a) constrained work conditions where intrinsic work qualities (creativity, variation, development, meaningfulness) are ignored or subordinated to instrumental values and elaborated forms of control; (b) the development and reinforcement of asymmetrical social relations between experts (including management elites) and nonexperts; (c) discursive closures whereby contestation cannot occur in potentially important negotiations of personal identities, knowledge, and values; (d) gender bias in terms of styles of reasoning, asymmetrical social relations, and political priorities; (e) far-reaching control of employees, consumers, and the general political-ethical agenda in society though mass media and lobbying that advocates consumerism and the priority of the money code as a yardstick for values and individual and collective political decision making; (f) destruction of the natural environment through waste and pollution; and (g) the constraints and narrow channeling of ethical issues in business and work and an emphasis on image-management producing a look-good-ethics decoupled from operations.

Evolution
CMS draws inspiration from a range of classical social theorists including Karl Marx, Max Weber, and psychoanalysis. A more specific tradition, drawing upon these theorists, is the critical theory of the Frankfurt school. This was founded in the late 1920s and gradually developed as one of the most influential intellectual traditions of 20th-century social theory. The most famous names associated with the school are Max Horkheimer, Theodor Adorno, Erich Fromm, Herbert Marcuse, and Jürgen Habermas. Horkheimer formulated the objective of the Frankfurt school in the 1930s as the liberation of human beings from the circumstances that enslave them. The ambition was to identify and critically scrutinize social forms, ideologies, and cultural orientations that prevent people from attaining autonomy and producing social conditions in line with their will and interest. This could range from authoritarian political regimes to cultural masculinity, cultish leadership, and uninhibited commercialism. Of particular interest for management studies is the increasing influence of technocracy and subtle and not-so-subtle forms of control penetrating an expansion of wider sectors of society and organizational life as exposed in classic works such as Dialectic of Enlightenment by Horkheimer and Adorno and One-Dimensional Man by Marcuse. Modern civilization, it is argued, has become progressively mesmerized by the power of a one-sided, instrumental conception of reason. This is visible in the expansion of business schools and the discipline of management incorporating not just organizational structure and labor process but in making a range of themes and orientations the object of corporate control, including values, identities, and emotions.

A rationale for CMS is offered by Habermas’s influential formulation of knowledge-constitutive interests. He distinguishes between three such interests: (a) A technical interest in establishing means-ends relations through controlled experiments and other efforts to establish causal relations is viewed as important and legitimate for mastering nature and is seen as the form of knowledge guiding the natural sciences. It also dominates management studies. (b) A practical (or historical-hermeneutic) interest concerns the understanding of language and culture and aims to create knowledge on ways of creating mutual understanding and human beings in the context of traditions-transmitting institutions. This is the task of the humanities, and the knowledge form here is hermeneutics, and the aim is understanding. (c) An emancipator interest is about
developing knowledge about constraints and repression associated with irrational social institutions and ideologies. The task for social science, Habermas claims, is through critical examination to encourage the transformation of these social conditions. Other social researchers, inspired by Foucault, are suspicious about the optimistic and pretentious idea of emancipation, including the possible elitist conception of researchers’ knowledge “liberating” the unfree through consciousness. They instead prefer to talk about resistance, viewing this as integral to power; that is, with power, resistance is triggered.

The term critical management studies was coined with the publication in 1992 of Mats Alvesson and Hugh Willmott’s book with the same name, but critical work in organization studies range back over the decades. In the late 1980s and early 1990s, the trend within critical work on organizations and management moved from the earlier, Marxist-based focus on labor process, over to a stronger interest in culture, subjectivity, and meanings. The great general interest in organizational culture also attracted advocates of CMS. In the 1980s and 1990s also, feminist work started to appear in management and organization studies in some quantities, much of it critically oriented. An initial interest in mainly females was gradually supplemented by an interest, although much more limited, in men and masculinities.

Post-structuralism and postmodernism received considerable attention in critical organizational studies in the 1990s and continue to be influential. Many people earlier interested in a critical-interpretive interest in culture and symbolism moved over into a postmodernistically informed understanding focusing on discourse. Postmodernism is now less of a central theme, but the interest in social constructions and the significance of discourse is strong. Parts of it share with CMS a radical and challenging orientation.

Today, there are debates within the critical perspective(s) between people emphasizing a constructivist and discursive view, influenced by postmodernism, and advocates of critical realism, who emphasize the structures, mechanisms, and objective nature of social reality.

Common among these orientations is an element of questioning established views as true or self-evident. Reality is socially constructed, often in arbitrary and often harmful, repressive ways. CMS tends to work as a disruption of the ongoing reproduction of the social world. There is, however, seldom a clear agenda, a positive vision, or any powerful questioning of the power effects of social constructions and discourses.

**Importance**

CMS is for some an esoteric and negative odd bird in the large nest of management studies, while for others, all research includes the critical scrutiny of the subject matters of their discipline, and there is no reason to adapt only or even mainly a pro-corporate stance when studying business and organizations. One can see management studies as the study of, not necessarily for, management. Irrespective of position, CMS is in the 21st century, a far from marginal tradition in management studies, although more strongly represented in Europe, in particular the United Kingdom, than in North America.

Much CMS literature is conceptual and investigates claims in academic and business literature. There are also good empirical cases but more illustrations than strong studies. The idea of CMS is less to prove how things are than to point at phenomena and aspects that can exercise a repressive impact and need to be countered.

As critical reflection and thinking is a key aspect of any well-functioning modern society and its institutions and professional-occupation groups, so the field of management and the practice of managers also benefit from challenges to more narrow, technocratic thinking and practice. Learning about more or less subtle forms of suppression—and how people may be caught in mainstreaming forms of thinking associated with tradition, fashion, dominant rhetoric, and subordination to authoritarian forms of management—can increase autonomy and encourage efforts to develop more humane and ethic forms of management. A critical distance to various conventions and practices may more generally support reflective professional practice by managers, consultants, and others in corporate settings.

*Mats Alvesson*

*See also* Analytical and Sociological Paradigms; Circuits of Power and Control; Critical Theory of Communication; Dialectical Theory of Organizations; Organizational Culture Theory; Social Construction Theory; Structuration Theory
Further Readings

Critical Theory of Communication

The critical theory of communication’s central management insight is that organizations and the various forms of knowledge and the human identities of members are products of complex interaction processes conducted under conditions of inequality. These products and organizational decision making are hence distorted and favor a small subset of interests at the expense of legitimate others. A critical theory of communication is defined as those theories that pose both moral and practical questions to these interaction processes and the forms of inequality. This entry will consider different types of critical theories, review the central questions posed, and detail the impact on management theory.

Fundamentals
All critical theories of communication see communication as fundamentally different from what is normally suggested in the ordinary uses of the term. Communication is not seen as one phenomenon among others in organizations. It is not treated as corporate communications nor a management tool, nor even as a term to reference human interaction. Instead, communication is treated as the fundamental process by which organizations exist and as central to the analysis of their production and reproduction.

Several types of critical theories of communication exist. Some are deeply rooted in a Marxist tradition. Much of this work has focused on the political economy of information, ownership of the mass media, communication workers, and the use of communication to advance capitalist interests. This work emphasizes the relations of production, ownership, and material conditions.

Growing out of this has been a second type of critical theories of communication which typically go under the name of cultural studies. Researchers for these studies have more often looked at the role of communication in the production and sustaining of a consumption society. Much of the focus has been on the “subjective” side of life, detailing how media messages and advertising produce a particular kind of human being with particular needs.

Each of these can be seen in various management studies. The most central use of the term critical theory of communication in management studies, however, has differed somewhat from these traditions. These uses grow out of the development of critical theory as a general social theory in “Frankfurt school” writings in the 1920s and 1930s. Much of this was further developed and recast by Herbert Marcuse in the 1960 in his critique of instrumental reasoning and more completely by Jürgen Habermas in the development of the theory of communicative action. Stanley Deetz took these rather broad philosophical concepts and brought them directly to bear on central issues in management studies and the relation of organizations to society. These concepts have continued to be enriched through their articulation within postmodern theory and various stakeholder theories.

Much of the use of critical communication theory, like critical theory more generally, begins with a careful description of the social historical construction of organizational life. These descriptions detail the arbitrary nature of contemporary institutions and practices and the differential advantages that it affords. Language and communication are seen as central to how these are produced and reproduced across time.

While many constructionists might agree with this, critical work goes a step further. Not only are organizations and their practices constructions that construct, but all construction occurs also under various conditions of inequality and hence serves some people and some interests better than other equally legitimate ones.
Critical studies of communication focus on understanding the relations among power, language, sociocultural practices, and the treatment and/or suppression of important conflicts in decision processes. Generally, those focusing on a critical theory of communication pay less attention to direct dominance by power elites in organizations and more to various forms of decisional asymmetry conceptualized as the subtle arbitrary micropractices of power-laden manners of world, self, and other in interaction.

Contemporary critical analyses focus on systems that require organizational members’ active role in producing and reproducing their exclusion from meaning making and decision-making processes. Fostering more democratic communication in these terms must look to the formation of knowledge, experience, and identity, rather than merely to their expression. Much analysis has focused on “discursive closures” where open interaction and production is closed off leading organizations to be less adaptive and responsive to social needs.

Critical theories of communication have impacted research regarding organizations through the development of various critical analysis procedures and critical discourse analysis. The focus on better systems of inclusion has impacted corporate social responsibility and stakeholder theory and advanced participatory action research as a stronger form of organization study and intervention.

Critical theories of communication have been very important to the analysis of organizational culture, the development of broader concepts of rationality, and the attempt to include a broader set of values and interests in decision making. They have brought to surface important conflicts that are often suppressed in ordinary interaction in organizations leading to important social and economic benefits.

This work encourages modern managers to develop alternative communication practices that allow greater democracy and more creative and productive cooperation among stakeholders through reconsidering organizational governance and decision-making processes and developing more collaborative management practices.

Stanley Deetz

See also Circuits of Power and Control; Corporate Social Responsibility; Critical Management Studies; Dialectical Theory of Organizations; Fairness Theory; Participative Model of Decision Making; Social Construction Theory; Stakeholder Theory

Further Readings

CSR Pyramid

The issue of corporate social responsibility (CSR) has been debated for decades. The theory behind the concept of CSR is that business organizations have responsibilities to society that extend beyond simply producing goods and services for a profit. Major questions that have driven the debate over this issue have been that of what CSR really means, what those responsibilities are, and how far businesses are expected to go. Though dozens of definitions of CSR have surfaced over the years, an accepted conceptual model of CSR that has become a standard part of management theory is the pyramid of corporate social responsibility. The pyramid of CSR was set forth by Archie B. Carroll in 1991 based on a definitional construct of CSR introduced in 1979. The pyramid was created as a useful way of graphically depicting the four-part definition of CSR by envisioning it as embracing four levels or
layers within a pyramidal framework. The four social responsibilities of business were contended to be economic, legal, ethical, and discretionary or philanthropic. The responsibilities were layered from the most fundamental expectation of business profitability at the base of the pyramid extending upward to the most discretionary responsibility at the apex of the pyramid. The CSR pyramid has been relevant to general management theory in that it has posited that businesses have responsibilities to a range of stakeholders other than owners. Other societal stakeholders affected, especially by the legal, ethical, and philanthropic responsibilities, include employees, customers, environment, communities, competitors, and others. In this entry, the fundamentals of the pyramid of CSR are described. This section includes an explanation of the pyramidal metaphor and a brief description of the four types of social responsibility that are depicted in the pyramid. Next is a section on the importance of the pyramid to managers. In this section, it is clarified how the pyramid helps managers to integrate economic concerns into a social performance framework and situate legal, ethical, and philanthropic responsibilities into a coherent structure.

**Fundamentals**

The pyramid of CSR is built upon the idea that organizations have responsibilities to the public by virtue of society giving them the charter to operate as producers and distributors of goods and services. While historically many business people have expressed the belief that the purpose of business is to make a profit, the pyramid of CSR recasts business purpose into one of meeting the needs and expectations of society’s stakeholders in addition to the owners of the businesses. In this light, profitability is seen not as the “purpose” of business but rather as one responsibility it has to the owners or investors who put their resources at risk to start and operate the business. Individuals who start businesses or invest in them may look upon their investments as pursuing profitability. But an institutional or societal perspective would argue that society permits businesses to exist to meet its needs, and profits are the reward or incentive it allows businesspeople for taking risk.

As a metaphor, the pyramid of CSR intends to illustrate that the total social responsibility of business is composed of distinct components that, when taken together, make up the whole. Although the components are treated as separate types for discussion purposes, they are not mutually exclusive and are not intended to juxtapose a firm’s economic responsibilities with its other obligations. Rather, the distinct layers seek to explain that the total social responsibility of business comprises four different types or categories of responsibility. The sequencing of the pyramid’s layers, moreover, is ordered from what is thought to be the most fundamental or basic responsibilities of business organizations in order to exist and continue to exist. Thus, if firms do not make a profit, that is, fulfill their economic responsibilities, all the others are moot.

To better understand the pyramid of CSR, it is helpful to consider in more detail the meaning of each of its types (levels or layers), beginning with economic.

**Economic Responsibilities**

First, businesses have economic responsibilities. First and foremost, the capitalistic system calls for business to be an economic institution. That is, it is an institution that ought to have the objective of producing goods and services that society wants and to sell them at fair prices—prices that society thinks represent the value delivered and that provides business with profits sufficient to ensure its survival and growth and to reward its owners and/or investors. It can be argued that the economic responsibility of being profitable is “required” of business by society. Economic institutions are not sustainable without ongoing profits.

**Legal Responsibilities**

Second, businesses have legal responsibilities. Just as society has sanctioned the economic system by permitting businesses to assume the producer and distributor roles, it has also established the ground rules under which businesses must operate—laws and regulations. Legal responsibilities reflect society’s view of “codified ethics” in the sense that they embody basic notions of fair practices as formalized by lawmakers. Before a law is created, it likely existed as an emerging ethical issue, one over which some consensus was developing regarding fair treatment of stakeholders. It is business’s responsibility to society to comply with these laws and regulations, for they represent consensus expectations regarding
fair dealings. Over the decades, laws and regulations have extended into requirements business must meet to respect owners, customers, employees, environments, communities, and so on. On their own, laws and regulations are necessary but not sufficient in terms of transactions with stakeholders. Just as economic responsibilities are required of business by society, so are legal responsibilities.

**Ethical Responsibilities**

Because laws are essential but not adequate, ethical responsibilities are needed to clarify those activities and practices that are expected or prohibited by society even though they have not been codified into law. The ethical responsibility is unique in that it cuts through all the other levels as well as existing on its own. In the economic responsibility, for example, society has rendered capitalism to be a “good” system (an ethical judgment), and part of this is the notion of investors getting profits. Likewise, before a law was passed, it doubtless originated as an ethical issue, an issue over which some consensus was building about fair treatment of stakeholders by businesses. For example, the civil rights, environmental, and consumer movements that came of age in the 1960s reflected basic alternations in societal values and thus were ethical bellwethers foreshadowing and leading to later legislation.

In this distinct category of ethical responsibilities, reference is primarily made to activities, practices, and conduct residing at a level higher than that required by law or occurring in realms of practice where no laws currently exist. The often repeated observation that “that may be legal but it sure isn’t ethical” is applicable here. It suggests that many laws are inadequate and that society really expects a higher level of behavior and practice out of organizations and its leaders.

Ethical responsibilities embody the full scope of norms, standards, values, and expectations that reflect what employees, consumers, shareholders, and the community regard as fair, just, and consistent with respect for and protection of stakeholder’s moral rights. Superimposed on these ethical expectations originating from society and stakeholder groups are the implied levels of ethical practices suggested by the great ethical principles of moral philosophy. These would include the principles of rights, justice, and utilitarianism. It is safe to say that the ethical responsibilities of business are not required like they are in the economic and legal categories, but they clearly are “expected” of business by society. Many businesses have failed because of their unwillingness to live up to society’s ethical expectations of them today.

**Philanthropic Responsibilities**

Philanthropic responsibilities encompass those corporate actions that are in response to society’s expectations that businesses “give back” and be good corporate citizens in the community, nation, and the world. This includes actively engaging in acts or programs to promote human welfare or goodwill. Examples of philanthropy include corporate contributions of financial resources or employee time through volunteerism. Such contributions typically go to support health and human services, civic and community activities, education, and culture and the arts. In recent years, giving in times of crisis has become an expected type of corporate citizenship that would fall into the philanthropic responsibility. Examples of this latter category would include the charitable donations made following Hurricane Katrina. Walmart, Home Depot, and Fed Ex were companies that stood out because of their ability to quickly mobilize and bring quick relief through the donations of supplies. During the Indian Ocean tsunami, businesses donated hundreds of millions of dollars worth of help to suffering communities.

Philanthropic responsibilities may also be thought of as discretionary responsibilities because they are not mandated by law. Some philanthropy is motivated by ethical considerations, but some is motivated more by businesses fulfilling a role that has come to be expected of them by society’s stakeholders to be a good corporate citizen. In recent years, strategic philanthropy has become popular among major corporations. Strategic philanthropy is an approach by which corporate giving and other philanthropic endeavors are designed in a way that best fits with the firm’s overall mission, goals, or objectives. Therefore, one requirement of strategic philanthropy would be to make as direct a contribution as possible to the financial goals of the firm. Philanthropy has long been thought to be in the best long-range economic interests of business, and the adage of “doing well by doing good” has become a
popular way to express business performance in this category of CSR. In recent years, the “business case” for CSR has been advocated, and strategic philanthropy is often thought to be a critical aspect of helping the firm while helping society. In the business case arguments, companies engage in socially responsible activities because of the following reasons: enhanced reputations, competitive advantages, industry trends, cost savings, greater customer loyalty, a more satisfied workforce, and fewer regulatory or legal problems. Though not required of business by society, the philanthropic responsibility is both “desired” and “expected” of business by society.

Importance

No metaphor is perfect, and the pyramid of CSR is no exception. It intends to illustrate that the total social responsibility of business is composed of distinct types or kinds that, when taken together, make up a unified whole. Although the four levels have been treated as separate types of responsibilities for discussion, they are not mutually exclusive. The CSR pyramid holds that businesses are expected to fulfill all four of the responsibilities though they have been depicted in a hierarchical arrangement based on their deep-seated importance to business. The pyramid is not intended to suggest that businesses fulfill their social responsibilities in some sequential fashion, starting at the base. Rather, business is expected to fulfill all its responsibilities simultaneously. Stated in practical managerial terms, the pyramid of CSR is intended to suggest that the socially responsible firm should make a profit, obey the law, be ethical, and be a good corporate citizen via philanthropy.

Two of the most challenging tasks in the field of corporate social responsibility include conceptualizing the concept in understandable terms and in measuring CSR activities and inclinations on the part of managers. The CSR pyramid helps scholars and practitioners to perceive in a comprehensive way what all is involved in the CSR concept. The pyramid brings together different threads of social responsibility concern and illustrates how they constitute a unified whole, which if achieved, address stakeholder concerns ranging from the owners to managers, employees, consumers, and other outside groups. In particular, the conceptual model helps practitioners to see that social responsibility is not separate and distinct from economic performance. The pyramid integrates economic concerns into a social performance framework and places legal, ethical, and philanthropic responsibilities into a coherent structure.

With respect to measurement, the four-part definition of CSR has enabled researchers to develop a means to assess managers’ CSR orientations in terms of their prioritizing of the four social responsibility types. Numerous research studies have found that managers do prioritize the four component parts in the same sequence and progression depicted in the pyramidal framework. In research, CSR “orientations” of executives have followed the economic, legal, ethical, philanthropic ordering of priorities.

Archie B. Carroll

Further Readings


Cultural Attitudes in Multinational Corporations

Cultural attitudes refer to a school of thought within international business that explores the relationship between management cognition and the alternative ways multinational corporations (MNCs) respond to the challenge of operating across national borders. The theoretical framework for this approach was introduced by Harold Perlmutter, first in his 1965 *L’enterprise internationale* and next in his famous 1969 article on “the tortuous evolution of the multinational corporation.” Drawing on a background in both engineering and social psychology, Perlmutter proposed that the best measure of a firm’s internationalization was not some readily available statistic—such as percent of foreign sales—but rather managerial mind-set. Since decision makers vary across MNCs in their beliefs and perceptions about the international environment, organizations end up pursuing fundamentally different solutions to similar situations. Thus, MNC leaders must develop an appropriate managerial orientation, or cultural worldview, if their organization is to achieve long-term financial and operational success. The next section of this entry outlines the basic elements of Perlmutter’s theory and describes how it was first adapted by Perlmutter himself and by other early proponents. The entry concludes with a description of this theory’s critical place in the development and evolution of international management as a distinctive area of inquiry within management thought.

**Fundamentals**

Perlmutter originally identified three principal perceptual orientations among top managers in MNCs: (a) ethnocentric, (b) polycentric, and (c) geocentric. In MNCs where an ethnocentric mind-set dominates, people, ideas, and practices from the home country are deemed superior to those from other countries. Decision-making authority resides in the headquarters, and information tends to flow “downward” to national subsidiaries in the form of orders, advice, and counsel. The MNC’s identity is closely associated with its country of origin. Recruitment for key positions takes place in the home country, and foreigners often feel marginalized.

The polycentric MNC has been described by the old expression “when in Rome, do as the Romans do.” Home-country managers view host-country cultures to be impenetrably difficult to understand, so decision making is delegated to the national subsidiaries. There is comparatively less communication between the headquarters and subsidiaries, or, even between subsidiaries. Consequently, cross-country learning is held to a minimum. Recruitment and training take place at the country level and each subsidiary develops a separate identity.

Within geocentric MNCs, managers seek out the best ideas and opportunities wherever in the world they emerge. Lines of communication and influence are complex, adaptive, and multidirectional. Headquarters and subsidiaries strive for a collaborative approach and pursue goals that are both mutual and global in scope. Subsidiaries often work closely with one another to formulate new ideas and strategies, as well as to transfer best practices. Training and development initiatives are expansive in scope, and key positions are filled by merit rather than nationality. While the geocentric MNC is a truly global entity, organization members still try to identify with local customers and meet their needs. “Globally integrated but locally responsive” is the mantra of the geocentric MNC.

While Perlmutter viewed these three categories as ideal-types, he believed that most MNCs could be categorized meaningfully within this typology. These three managerial orientations were also regarded as a progression. Although firms often start out with a strong ethnocentric bias, they become increasingly polycentric as they expand internationally. Few firms ever become fully geocentric, however, which is treated in Perlmutter’s model as a sort of ultimate end state. In later formulations, Perlmutter and his colleagues added a fourth category, labeled regional, where the MNC views a broad international region (such as Europe or Asia-Pacific) as a single market. Together, these four managerial orientations are known as the ethnocentric, polycentric, regiocentric, geocentric framework, or EPRG framework.

Other factors beyond the MNC’s natural evolutionary progression can also shape managerial cultural attitudes. These include individual characteristics such as CEO leadership style and personal biases, as well as organization-level variables including firm size and industry. Theorists also point to
the importance of home-country characteristics in determining managerial orientations. MNCs from the United States and other large economies may be more prone to ethnocentrism since home-country environmental munificence offers the latitude to overlook smaller markets. Prior to common market initiatives, European MNCs were especially likely to follow a polycentric approach because of the large number of culturally and institutionally diverse markets within close geographic proximity. New MNCs from developing economies might experience pressures to pursue a geocentric mind-set more quickly due to limited opportunities in their domestic market. In 1993, McKinsey & Company coined the term “born global” to describe MNCs that adopt a global market orientation almost from their inception. Different functional areas within the same MNC can also demonstrate dissimilar managerial orientations. A pharmaceutical company might organize its research and development (R & D) activities based on geocentric ideals but behave in an ethnocentric or regiocentric manner in its sales and marketing efforts.

Importance
The challenge of monitoring and controlling business activities across diverse national institutional environments was one of the first and still most important topics in international management. Business historians attribute the term multinational corporation to David Lilienthal (founding director of the Tennessee Valley Authority) who used this phrase in an address given in 1960 to describe corporations with a “home in one country which operate and live under the laws and customs of other countries as well.” Lilienthal’s speech focused on many of the same issues raised by Perlmutter, and which still captivate international business scholars and managers today. These topics included home office–subsidiary relations; the selection and training of employees for international assignments; problems resulting from national, cultural, and legal differences; and the need to develop a “cosmopolitan” class of managers. Prior to Perlmutter, other early international business scholars, such as Yair Ahroni and Charles Kindleburger, had also explored the impact of managerial cognition on MNC behavior.

The greatest contribution of Perlmutter’s approach to MNC cultural attitudes was perhaps his introduction of a formal typology that proved both relevant and readily adaptable to international business scholars working across a wide variety of subdisciplines. Indeed, few international business frameworks have inspired such a diverse body of research. Researchers in international human resource management point out how Perlmutter’s 1969 article was one of the few papers to address international training and staffing issues prior to the 1990s, and that the EPRG framework still serves as the basis for how scholars describe international human resource strategies. The framework holds a similar place of honor within the international marketing field for comparing MNC approaches to new product development and branding strategies among other topics. The cross-cultural management scholar Nancy Adler even drew upon Perlmutter’s concepts to distinguish between six types of culture research: (a) parochial, (b) ethnocentric, (c) polycentric, (d) comparative, (e) geocentric, and (f) synergistic. The first four all focus on the behavior of organizations in individual countries, but they differ in the number of cultures being studied and in assumptions about whether theories from one culture are applicable to others. Geocentric studies focus on the behavior of the MNC operating across countries, whereas synergistic research examines cross-cultural interaction within organizational boundaries.

One of the most important and best known adaptations to Perlmutter’s framework was formulated by strategic management researchers Christopher Bartlett and Sumantra Ghoshal, who also drew inspiration from John Fayerweather’s proposal that international firms must strike a balance between fragmentation and unification. Bartlett and Ghoshal distinguished between (a) multinational, (b) global, (c) international, and (d) transnational companies. Multinationals essentially operate as a portfolio of national companies and may prove effective when there are strong market pressures to be responsive to national differences. By comparison, global firms are more centralized in their operations and decision making. They view their worldwide market as a solitary cohesive whole and tend to be most successful in environments that require cost efficiencies through global integration rather than local responsiveness. International companies seek to transfer knowledge and capabilities from the parent company to its foreign subsidiaries and represent a kind of hybrid form. They are more centralized than multinational firms but allow for more adaptation than purely global
entities. Bartlett and Ghoshal proposed that since firms face increased pressures to be both globally integrative and nationally responsive, they should aspire to the fourth category, the transnational approach. This new type requires firms to develop operational units that are globally dispersed, differentiated but interdependent, and create and share knowledge and capabilities on a worldwide basis. They argued that building a transnational organization requires changes to more than just administrative policies and formal organizational structure. Instead, they offered their transnational solution as a new managerial orientation, or state of mind.

Bartlett and Ghoshal’s transnational approach and Perlmutter’s category of geocentricism share close theoretical ties with the growing body of research on global mind-set. According to Mansour Javidan and Mary Teagarden, global mind-set refers to an individual’s ability to influence individuals, groups, organizations, and systems that are unlike his or her own. They contend that this ability depends on three types of capital—intellectual, social, and psychological. The global mind-set construct has been operationalized in a variety of ways including surveys and interviews of senior executives, content analysis of company documents, and assessments of firm behavior. In 2003, P. Christopher Earley and Soon Ang introduced a promising effort to quantify global mind-set through a 20-item survey of cultural intelligence (CQ). This index seeks to measure an individual’s ability to perform effectively across diverse cultural settings.

While advocates of cultural intelligence and global mind-set stress the need for MNC managers to adopt a cosmopolitan orientation, cross-cultural researchers often point to the dramatic differences in leadership styles across countries. Societal values in the United States, for instance, encourage managers to stress individual achievement and responsibility, short-term goals, as well as a scientific or rational decision-making orientation. By contrast, the German system of codetermination fosters a more collaborative approach between managers and workers. The Japanese principles of *amae* (dependence), *giri* (obligation), and *gambare* (perseverance) have been argued to contribute to a management system emphasizing reciprocity, hierarchical relationships, and “long-termism.” Managers across countries also differ in their degree of power. Managers in the United States, Germany, and Japan normally enjoy a relatively high degree of status. British managers, by comparison, have not fared as well since their position has traditionally been viewed as an unsuitable vocation for the elite class. Since top positions in most large Chinese firms have historically been held by Communist Party officials, the emergence of professional managers as a unique social class is a relatively new phenomenon in China. Despite changing environments in these and other countries, managers must be mindful of such cultural differences when interacting with stakeholders such as workers, customers, and suppliers in foreign countries.

One recent development within international business research has been a growing movement challenging the view that becoming a “truly global firm” is a strategic imperative. Alan Rugman, for instance, examined the sales activities of the world’s largest MNCs and found that the vast majority were either focused on just one region (North American, European, or Asian) or biregional. One of the implications of this finding is that the international management field must place greater emphasis on regional rather than global strategies. In a series of books and articles, Pankaj Ghemawat similarly suggests that business and society is far less globalized than frequently assumed. He cites estimates that 90% of the world’s population will never visit a foreign country and still receives an overwhelming share of their news and information from domestic sources. In such a world, it may not be preferable or even possible to achieve both global integration and local responsiveness. He calls on managers to adopt a cosmopolitan orientation where they not only recognize and appreciate national differences but also exercise a healthy caution about them. According to this view, MNCs should not seek out opportunities wherever they emerge without first taking the institutional context into account. Adaptation may not always be possible and is never perfect, so managers must consider cultural, political, legal, economic, and other differences when making market entry and other international business decisions.

William D. Schneper and Mary Ann Von Glinow

See also Cultural Intelligence; Institutional Theory of Multinational Corporations; Interactional Model of Cultural Diversity; Meaning and Functions of Organizational Culture; Organizational Structure and Design; Strategic International Human Resource Management; Transnational Management
Further Readings

Cultural Intelligence

International and intercultural work has become the norm for most large companies despite the large challenges confronting global companies. Managers often operate across borders in teams of internationally diverse units. Thus, many large organizations express the need to have managers who can quickly adjust across many cultures and work in a globally diverse context. The result of these pressures has been a need to understand better those characteristics and dynamics that underlie cultural adaptation and adjustment, typically, through some type of human resources training on cultural awareness. An emphasis on understanding others through their related values, beliefs, and practices underlies much current work on cultural training and management education. However, there is a fundamental limitation with a cultural values awareness approach—an awareness of cultural values is not a substitute for more direct knowledge of interpersonal interactions, just as values alone are not solely the predictive feature of behavior. To address these limitations in the face of new global challenges, and supplement the strengths in current approaches, an alternative approach was introduced and discussed that uniquely identifies the specific capabilities of an individual based on a faceted model of cultural adaptation called cultural intelligence, or CQ. This entry is focused on describing a faceted model of CQ consisting of three basic elements: cognitive and metacognitive, motivational, and behavioral CQ for looking at strategic thinking and mental processing, value orientation, and efficacy engagement and actions taken, respectively.

Fundamentals

There are a number of conceptualizations of CQ, the most dominant posed by P. Christopher Earley and Soon Ang as well as D. C. Thomas and K. Inkson. For this entry, the Earley and Ang framework will be focused upon, but the two approaches share many commonalities. CQ consists of three fundamental elements: metacognition and cognition (thinking, learning, and strategizing), motivation (efficacy and confidence, persistence, value congruence, and affect for the new culture), and behavior (social mimicry and behavioral repertoire). To illustrate these facets, take an example of a Thai employee who is seen smiling at his Canadian (expatriate) manager. Relying on direct cues derived from North American culture might lead the manager to assume her employee is happy or pleased. But such an interpretation might be largely overly simplistic and ignorant of social context. The physical action of smiling was once thought to denote a relatively small domain of underlying emotions (positive), but more recent work by psychologists suggests that this view is limited. The attributional mechanisms at work with emotional display are complex and culturally faceted. This idea
is illustrated in the example of the “Thai smile” and how this might be best understood by the Canadian manager. First, she needs to observe the various cues provided in addition to the smile gesture itself (e.g., other facial or bodily gestures, significance of others who may be in proximity, the source of the original smile gesture) and to assemble them into a meaningful whole and make sense of what is really experienced by the Thai employee. Second, she must have the requisite motivation (directed effort and self-confidence) to persist in the face of confusion, challenge, or apparently mixed signals. Third, she must choose, generate, and execute the right actions to respond appropriately. If any of these three elements are deficient, then she is likely to be ineffective in dealing with the Thai national. A high CQ awareness manager or person has capability with all three facets as they act in unison.

Let us now turn to a more in-depth discussion of the features of cultural intelligence drawn from Earley and Ang’s 2003 book Cultural Intelligence. First, the metacognitive and cognitive facet refers to information processing aspects of intelligence, and it is conceptualized using self-concept theory. Our “self” is a dynamic interpretive structure that mediates most significant intrapersonal and interpersonal processes. The cognitive facet of CQ can be viewed as the total knowledge and experience of an individual stored in memory concerning cultural adaptation. Knowing yourself is not sufficient, for high CQ awareness does not guarantee flexibility; adaptability of self-concept and ease of integrating new facets into it are, however, associated with high CQ since understanding new cultures may require abandoning preexisting conceptualizations of how and why people function as they do.

Another aspect of CQ is metacognition, and it refers to higher level cognitive processes as part of a person’s processing of information, or “thinking about thinking.” Thus, metacognition can be broken down into two complementary elements including metacognitive knowledge (what and how to deal with knowledge gained under a variety of circumstances) and metacognitive experience (what and how to incorporate relevant experiences as a general guide for future interactions). Metacognition is a critical aspect of CQ since much of what is required in a new culture is putting together patterns into a coherent picture, even if one does not know what this coherent picture might look like. To do so requires a higher level of strategy about people, places, and events. A high CQ person must inductively create a proper mapping of the social situation to function effectively. This requires a general but broad foundation of knowledge about cultures and societies similar to the training recommended by an anthropological view covering topics such as economic systems, religious and political institutions, social relationships, and so on.

The second facet of CQ refers to its motivational aspect. It’s insufficient to merely have information about how a group of people deal with the world. You must be able (and motivated) to use this knowledge and produce a culturally appropriate response. Cultural intelligence reflects self-concept and directs and motivates adaptation to new cultural surroundings. Psychologist Albert Bandura’s self-efficacy idea is that of a judgment of one’s capability to accomplish a certain level of performance. People tend to avoid tasks and situations they believe exceed their capabilities, and efficacy judgments promote the choice of situations and tasks with high likelihood of success and eliminate the choice of tasks that exceed one’s capabilities. A person who does not believe in personal capability to understand people from novel cultures is likely to disengage after experiencing early failures. Highly efficacious people do not require constant rewards to persist in their actions; not only may rewards be delayed, but they may also appear in a form that is unfamiliar.

Efficacy alone is not a full description of the motivational facet of CQ, and an important, and related, addition is psychologist and business professor Edwin Locke’s concept of goal setting. Behavior is both goal directed and purposeful. In an intercultural encounter, a challenge is to determine the goals of others coming from a different cultural and personal background. Goals specify the conditional requirement for positive self-evaluation. The process of evaluating the significance of knowledge about what is happening with our personal well-being generates emotions. Goal appraisal is necessary not only for activating a response toward goal attainment but also for generating emotions that are necessary for energizing action. That is, our goals may act as cognitive anchors thereby guiding subsequent actions.

A person’s norms and values are an important aspect of the self as they guide attention to unique aspects of the social environment. Values and norms guide our choice of activities as well as help define
our evaluation of them. For example, a person having a strong power orientation likely shows deference to authority and engages in a directive style with subordinates. Values are standards that lead individuals to take positions over issues, predispose individuals to favor particular ideologies, guide self-presentations, evaluate and judge ourselves and others, act as a basis for morality and competence comparisons with others, direct individuals concerning what ideas of others should be challenged, and tell individuals how to rationalize beliefs and actions that would otherwise be unacceptable so as to preserve self-image.

Cultural encounters are very different than the context typically experienced by an employee. These encounters challenge a person's thoughts and assumptions about their own culture by contrasting their beliefs about right and wrong with a potentially different system. One reaction to such a challenge is for the individual to isolate himself from the new culture. For example, a person low on motivational CQ who encounters initial frustration of goal attainment (e.g., having an unsuccessful cultural encounter) will have lowered efficacy, negative self-image, and potential disengagement with others.

The third facet of cultural intelligence refers to a person's behavior. Behavioral CQ reflects a person's capability to acquire or adapt behaviors appropriate for a new culture. The behavioral element of CQ suggests that adaptation is not only knowing what and how to do things (cognitive) and having the wherewithal to persevere and exert effort (motivational); it also requires an individual to engage in appropriate actions. Lacking these specific behaviors, a person must have the capability to acquire such behaviors.

A person may know and wish to enact a culturally appropriate behavior but cannot do so because of some deep-seated reservation. For example, imagine a manager who is thrust into an uncomfortable social situation and is not able to control his nonverbal communication cues. This type of response (or lack of it) can be thought of in behavioral terms. Even if a person is able to provide a desired response in a cultural encounter, it remains problematic because the host may detect hesitation and react negatively. Persistence is necessary for the acquisition of new skills and so is a person's aptitude to acquire these new skills. That is, it is not enough to be willing to try and learn new behaviors—a high CQ person has an aptitude to determine where new behaviors are needed and how to execute them effectively.

Importance

The preceding sections of this entry have introduced and described cultural intelligence and its key elements, metacognitive and cognitive, motivation, and behavior. The utility of this approach is illustrated nicely by an application to a very important problem in global business—running effective global teams. Working on a highly diverse team consisting of members from a range of cultures and backgrounds makes the problem of establishing goals, roles, and rules highly problematic because of the additional complexity added due to cultural differences. Take, for example, the issue concerning rules for interaction within a multinational team. How should members interact and discuss core issues? If disagreements occur, how are they to be resolved? If the team receives limited resources, how should they be distributed? And how might team members decide individual responsibilities? A team member coming from a strong need-based culture might well expect that scarce resources are allocated based on need rather than accomplishment, while a fellow member coming from an equity-based culture might have an opposing view. The unstated assumptions concerning right and wrong, due process, expectations for membership, and so forth are tied to cultural background and experience. So although these kinds of issues are a good starting point for building trusting teams within a single culture, they can easily become contentious issues in the global team.

CQ competencies based on metacognition and motivation are of particularly high importance for the global team. Functioning in such a team requires that members acknowledge their weak overlapping knowledge and focus on the most basic commonality to create a hybrid or synergistic culture that grows out of something more fundamental than distribution of rewards and decision rules. Even though the long-term strength of global teams lies in their diversity and unique experiences as a team, sharing those unique perspectives in a team too early in the group's interactions is risky individually.

Global teams require specific CQ competencies held by members to uncover commonality across its membership, effective and appropriate role allocations, and clearly defined rules for interaction
based on the specific needs (i.e., some cultural and some individual) and interests of team members. Metacognitive CQ training addresses these different learning strategies in the way that cognitive CQ training addresses the content differences. Motivational CQ provides the confidence to persist when trying to determine the basis of experienced differences. Behavioral CQ guides appropriate ways of interacting with others from different cultures.

Given the importance of cultural interaction, it remains unfortunate that the dominant approach used in both corporate and educational settings is to provide managers and students with culture-specific knowledge in the case of a targeted assignment (country specific, limited duration assignment, or educational study-abroad program) or culture-general features dominated by a discussion of a limited set of cultural values. Unfortunately, cultural values briefings can easily degrade into a values-based stereotyping of national cultures and provide tenuous, if not downright unfounded, links to actual behavior of cultural participants. CQ represents a new direction for theory and practice that tailors unique facets of capability to each individual. By focusing on these interdependent systems, training and cultural understanding are more easily approached and enhanced.

P. Christopher Earley

See also Cultural Values; Emotional and Social Intelligence; High- and Low-Context Cultures; Organizational Culture Theory; Social Cognitive Theory; Social Information Processing Model; Strategic International Human Resource Management

Further Readings


CULTURAL VALUES

In this globalized and multicultural world, there is nearly universal agreement among cross-cultural researchers that values are a key component of culture as demonstrated by a number of important cross-national studies of values. Thus, a number of researchers within sociology, social psychology, and anthropology state that cultural values have a large influence on how people’s beliefs, attitudes, and behaviors are shaped. As differences in cultural values are also associated with differences in work-related values, they are of particular interest to academics in the field of management, as well as to practicing managers. Considering that different national cultures have different value systems, the importance and meaning that, for example, Americans, Dutch, Chinese, and Brazilians attribute to work goals, motivation, leadership, communication, hierarchy, and teamwork, just to name a few, may reflect in different and sometimes conflicting attitudes, behaviors, and practices that may be considered legitimate within the same national culture. Building explicitly on the research tradition begun by Geert Hofstede, there is also strong evidence that national cultures and, consequently, values measured at the national level are associated with economic growth, although other factors such as technological progress and governmental policy should also be considered to understand differences in economic performance. This entry will be a review of the nature of cultural values, broach the main cultural frameworks, and show a glimpse at the future faced by scholars and managers in an interdependent world.

Fundamentals

Before introducing the main framework concerning cultural differences in values, it is necessary to explain how theorists have defined culture and values.
Cultural Values

*Culture* has been explained in various ways. Florence Kluckhohn and Fred Strodtbeck’s definition of culture can be synthesized as a shared set of commonly held general beliefs and values that influence people’s assumptions, perceptions, and behavior. For anthropologist Clifford Geertz, culture is a historically transmitted pattern—or web—of meanings by means of which men communicate, perpetuate, and develop their knowledge about and their attitudes toward life. For social psychologist Geert Hofstede culture is the collective programming of the mind that manifests itself not only in values but also in more superficial ways such as in symbols, heroes, and rituals.

Values have also been defined in different ways. For Kluckhohn, a value is a conception, explicit or implicit, distinctive of an individual or characteristic of a group, of the desirable which influences the selection from available modes, means, and ends of action. For Milton Rokeach to say that a person “has a value” is to say that he has an enduring belief that a specific mode of conduct or end state of existence is personally and socially preferable to alternative modes of conduct or end states of existence. From these definitions, we can infer that Kluckhohn and Rokeach did not distinguish what is personally preferable, desirable, or important from what is socially preferable, desirable, or important. In other words, a culture may harbor conflicting values. Such contradictions may exist due to an inconsistency between people’s actions and their professed values, which explain why scholars must carefully distinguish between what people do and what they say. So, in Hofstede’s view, an important distinction is that between values is the desired and the desirable, or, in other words, what people actually desire versus what they think they ought to desire. Although the two are not independent, they should not be equated to avoid confusion between reality and social desirability. For sociologist Ronald Inglehart, values change, but historically, the changes are very gradual and reflect changes in the formative experiences that have shaped different generations. As younger generations gradually replace older ones, the prevailing worldview may be transformed. In this sense, values are in a flux that may cause shifts in value systems. Finally, cross-cultural psychologist Shalom Schwartz, a prominent scholar in the study of values across individuals and nations, defines values as conceptions of the desirable that guide the way social actors (e.g., organizational leaders, policymakers, individual persons) select actions, evaluate people and events, and explain their actions and evaluations.

Hofstede carried out the best known cross-cultural framework in the 1970s, across more than 50 countries, producing four dimensions. It was later revisited, in the 1980s and in 2010, to add two additional dimensions. Before presenting the Hofstede dimensions, it is important to clarify that in studying values, we compare individuals, while in studying culture, we compare societies. Thus, Hofstede clearly stated that in constructing indexes for the national level, researchers ought to make sure that a country’s mean scores correlate across countries to avoid the reverse ecological fallacy (it occurs when researchers compare cultures on indexes created for the individual level). Societal cultures reside in (often unconscious) values, in the sense of broad tendencies to prefer certain states of affairs to others. For Hofstede, cultures are extremely stable over time, and this stability can be explained with the reinforcement of cultural patterns by the institutions that they themselves are products of the dominant value systems.

In Hofstede’s framework, each country is positioned relative to other countries through a score on each comparable dimension. These dimensions, which describe national averages, hold valid as scores provide not absolute but relative country positions to other countries in the set. However, this does not invalidate the existence of countries with strong subcultures and more heterogeneous internal dimension distributions (such as Canada with its French Canadian culture that has differences when compared with its English-speaking culture) and of countries with more homogeneous internal distributions (for example, Japan and Argentina). A summarized description of the Hofstede dimensions, extracted from some of his publications, may be useful to better understand their implications.

**Power Distance**

Power distance has been defined as the extent to which the less powerful members of organizations and institutions (like the family) accept and expect that power is distributed unequally. This represents inequality (more versus less) but defined from below, not from above. It suggests that a society’s level of
inequality is endorsed by the followers as much as by the leaders. Power and inequality, of course, are extremely fundamental facts of any society. All societies are unequal, but some are more unequal than others. In Hofstede, Hofstede, and Minkov’s 2010 edition of *Cultures and Organizations: Software of the Mind*, the Power Distance Index scores are listed for 76 countries (see Table 3.1, pp. 57–58); they tend to be higher for eastern European, Latin, Asian, and African countries and lower for Germanic and English-speaking Western countries.

**Uncertainty Avoidance**

Uncertainty avoidance is not the same as risk avoidance; it deals with a society’s tolerance for ambiguity; it is about anxiety. The roots are nonrational. Human societies at large use technology, law, and religion to deal with uncertainty. Organizations tend to use technology, rules, and rituals. It indicates to what extent a culture programs its members to feel either uncomfortable or comfortable in unstructured situations. Unstructured situations are novel, unknown, surprising, and different from the usual. Uncertainty-avoiding cultures try to minimize the possibility of such situations by strict behavioral codes, laws, and rules. Rules are semirational: It is about trying to make people’s behavior more predictable, and because people are both rational and nonrational, rules should take account of both aspects. In the 2010 edition of *Cultures and Organizations: Software of the Mind*, Uncertainty Avoidance Index scores are listed for 76 countries; they tend to be higher in eastern and central European countries, in Latin countries, in Japan, and in German-speaking countries, while lower in English-speaking, Nordic, and Chinese culture countries.

**Individualism**

Individualism on the one side versus collectivism, as a societal, not an individual characteristic, is the degree to which people in a society are integrated into groups. On the individualistic side, we find cultures in which the ties between individuals are loose: Everyone is expected to look after himself or herself and his or her immediate family. On the collectivist side, we find cultures in which people from birth onward are integrated into strong, cohesive in-groups, often extended families (with uncles, aunts, and grandparents) that continue protecting them in exchange for unquestioning loyalty, and they oppose other in-groups. Again, the issue addressed by this dimension is an extremely fundamental one, regarding all societies in the world. In the 2010 edition of *Cultures and Organizations: Software of the Mind*, Individualism Index scores are listed for 76 countries; individualism tends to prevail in developed and Western countries, while collectivism tends to prevail in less developed, Latin American, and Eastern countries; Japan takes a middle position on this dimension.

**Masculinity–Femininity**

Masculinity versus femininity, again as a societal, not as an individual characteristic, refers to the distribution of values between the genders, which is another fundamental issue for any society, to which a range of solutions can be found. The assertive pole has been called “masculine” and the modest, caring pole “feminine.” The women in feminine countries have the same modest, caring values as the men; in the masculine countries, they are somewhat assertive and competitive, but not as much as the men, so that these countries show a gap between men’s values and women’s values. In masculine cultures, there is often a taboo around this dimension. In the 2010 edition of *Cultures and Organizations: Software of the Mind*, the Masculinity Versus Femininity Index scores are presented for 76 countries; masculinity is high in Japan, in German-speaking countries, and in some Latin countries, such as Italy and Mexico; it is moderately high in English-speaking Western countries; it is low in Nordic countries and in the Netherlands and moderately low in some Latin and Asian countries, such as France, Spain, Portugal, Chile, Korea, and Thailand.

**Long-Term Versus Short-Term Orientation**

This dimension was first identified in a survey among students in 23 countries around the world, using a questionnaire designed by Chinese scholars. As all countries with a history of Confucianism scored near one pole, which could be associated with hard work, the study’s first author Michael Harris Bond labeled the dimension Confucian work dynamism. The dimension turned out to be strongly correlated with economic growth. As none of the four International Business Machines Corporation, or IBM, dimensions was linked to economic growth,
Hofstede obtained Bond’s permission to add his dimension as a fifth to the four. Because it had been identified in a study comparing students from 23 countries, most of whom had never heard of Confucius, Hofstede renamed it long-term versus short-term orientation; the long-term pole corresponds to Bond’s Confucian work dynamism. Values found at this pole were perseverance, thrift, ordering relationships by status, and having a sense of shame; values at the opposite, short-term pole were reciprocating social obligations, respect for tradition, protecting one’s “face,” and personal steadiness and stability. In the 2010 edition of Cultures and Organizations: Software of the Mind, Michael Minkov, by combining elements of his research with World Values Survey (WVS) items, succeeded in obtaining a new version of long versus short-term orientation, now available for 93 countries and regions. Long-term oriented are East Asian countries, followed by eastern and central European countries. A medium-term orientation is found in South and North European and South Asian countries. Short-term oriented are the United States and Australia and Latin American, African, and Muslim countries.

**Indulgence Versus Restraint**

The sixth and new dimension, added in the 2010 edition of Cultures and Organizations: Software of the Mind, uses Minkov’s label indulgence versus restraint. It was also based on recent World Values Survey items and is more or less complementary to long versus short-term orientation. It focuses on aspects not covered by the other five dimensions but known from literature on “happiness research.” Indulgence stands for a society that allows relatively free gratification of basic and natural human desires related to enjoying life and having fun. Restraint stands for a society that controls gratification of needs and regulates it by means of strict social norms. Scores on this dimension are also available for 93 countries and regions. Indulgence tends to prevail in North and South America, in Western Europe, and in parts of sub-Saharan Africa. Restraint prevails in Eastern Europe, in Asia, and in the Muslim world. Mediterranean Europe takes a middle position on this dimension.

**Evolution**

In 2011, Hofstede contextualized his model and included a synthesis on the evolution of concepts and constructs from which we partly borrow.

In the early 1950s, anthropologist Clyde Kluckhohn was the first to argue that there should be universal categories of cultural values. Also in the 1950s, sociologists Talcott Parsons and Edward Shils suggested that human action is determined by five bipolar variables: affectivity (need for gratification) versus neutrality (restraint of impulses), self-orientation versus collectivity orientation, universalism (applying general standards) versus particularism (each case is a case), ascription (judging others by who they are) versus achievement (judging them by what they do), and specificity (limiting relations with others to specific spheres such as private and public) versus diffuseness (no prior limitation of relations to specific spheres).

From the 1950s to the 1980s, anthropologist Edward Hall published several books with important contributions. He divided cultures according to their ways of communicating into high-context (much of the information is implicit, indirect, and you have to read between the lines) and low context (information is more explicit, direct, and generally more detailed). Hall is also well known for having identified cultural values related to time, space, and objects and for having introduced other fundamental constructs: proxemics (use of space, including personal space and territory) and monochronic versus polychronic time (preference to do one thing at a time versus several things happening at once).

In the 1960s, anthropologists Florence Kluckhohn and Strodtbeck, as a result of field studies in small American communities, identified the following value orientations: an evaluation of human nature (evil-mixed-good), the relationship of man to the surrounding natural environment (subjugation-harmony-mastery), the orientation in time (past-present-future), the orientation toward activity (being/feeling-controlling, rational-doing/pragmatic), and relationships among people (hierarchical-group oriented-individualistic).

In the late 1950s and 60s, sociologist Alex Inkeles and psychologist Daniel Levinson identified three value dimensions, which they called standard analytic issues: relation to authority, conception of self, and primary dilemmas or conflicts and ways of dealing with them (including the control of aggression and the expression versus inhibition of affect).

Another prominent scholar is Harry Triandis who, during 1980 and 1994, did a good deal of empirical work exploring the individualism and
collectivism constructs. According to his perspective, tendencies toward individualism and collectivism exist within every individual and in every society. In collectivistic cultures, people think of themselves as part of their collectives and, in most situations, subordinate their personal goals to those of their collectives; in individualistic cultures, people are more detached from their collectives, feel more autonomous, and give precedence to personal goals.

Shalom Schwartz, following several theorists (e.g., Hofstede; Kluckhohn & Strodtbeck; and Rokeach), postulates that cultural dimensions of values reflect the basic issues or problems that societies must confront in order to regulate human activity. His theory derives seven types of values on which cultures can be compared, which are postulated to form three bipolar dimensions: autonomy (intellectual and affective) versus conservatism (approximately equivalent to collectivism), hierarchy versus egalitarianism (emphasizing equality, social justice freedom, and honesty), and mastery (implying emphasis on ambition and success) versus harmony (implying emphasis on unity with nature and protecting the environment).

Sociologist Ronald Inglehart expanded the European Values Survey (now WVS) to cover more than 100 countries worldwide and also areas such as ecology, economy, education, emotions, family, gender and sexuality, and society and nation, among others. Michael Minkov took up the challenge of exploring the potential of the WVS. In 2007, he published a book in which he described three new cross-national value dimensions, which he labeled exclusionism versus universalism (which strongly correlates with Hofstede’s collectivism versus individualism), indulgence versus restraint (which is now the 6th dimension of the Hofstede model), and monumentalism (its main facets are pride and self-consistency) versus flexumility (a combination of flexibility and humility), which moderately correlates with Hofstede’s long and short-term orientation.

Another large-scale project was Global Leadership and Organizational Behavior Effectiveness (the GLOBE), conceived by management scholar Robert J. House in 1991. At first, House focused on leadership, but soon the study branched out into other aspects of national and organizational cultures and produced 18 country scores for each country: nine cultural value dimensions “as is” and nine dimensions “should be.” This research has provoked an extensive debate in the literature, but so far, there seem to have been few applications relevant for practical use by cross-cultural practitioners.

**Importance**

We live today in an interconnected and interdependent world, where the dimensional cultural value paradigm can help us grasp the internal logic of this changing environment. Different scholars have presented alternative models that have stimulated the debate and the development of cross-cultural research. Dimensions are constructs that help us understand cultural values in order to handle the complex reality of the social world. All models have received support and criticism, but that does not undermine their value and their contribution to knowledge. Even those who advocate that new technologies will make societies more and more similar should consider that cultures with different value systems, or as Geertz put it, with different webs of meaning, will probably cope with technological modernization in different ways. Critics argue that the Hofstede cross-cultural framework is obsolete. However, numerous studies replicating the dimensions have, so far, corroborated their validity, as the scores provide not absolute but relative country positions to other countries in the set.

Finally, cultural dimensions of values, as proposed by Schwartz, reflect the basic issues or problems that societies must confront in order to regulate human activity. As globalization proceeds, new concerns will probably emerge, and the need for new and maybe different theoretical perspectives may rise, but all cross-cultural scholars will have contributed to laying the foundations for the advancement of cultural values research.

For the modern manager operating in a global business context, different cultural value systems in general and the Hofstede value dimensions in particular provide insights to address important issues, challenges, and opportunities that have been mostly exemplified in Hofstede’s works as follows:

Power distance (PD) explains concentration of authority (for example, the degree of centralization of authority in China vs. the flatter structures with flexible borderlines and empowerment in Denmark). In terms of preferred managers, subordinates in low PD countries tend to prefer the consultative type, while subordinates in high PD countries tend to accept autocratic or paternalistic managers. Management by objectives can work only if there is room for bargaining between
boss and subordinate; consequently, this technique tends not to fit in high PD countries, where privileges for superiors are usually normal.

In higher uncertainty avoidance (UA) cultures, there is a stronger appeal for rules, so innovators tend to feel more constrained by rules and regulations. The appeal of rituals in high UA countries tends to materialize in a need for detailed planning. Coping with uncertainty is also a variable critical to power: In high UA societies, those who control uncertainty tend to be more powerful than in low UA societies, where uncertainty is more easily tolerated. Competencies should be more clearly defined in high UA cultures than in low UA cultures and matrix organization structures tend to be less acceptable in high UA countries.

In individualistic cultures, employees are expected to act rationally according to their own interest, and work should be organized in such a way that this self-interest and the employer’s interest coincide; the relationship between employee and employer is primarily a business transaction. In a collectivist culture, an employer never hires just an individual but a person who belongs to an in-group, so frequently, trust and loyalty may be considered more important than performance.

In distributing rewards, feminine cultures tend to favor equality and mutual solidarity, whereas masculine cultures tend to favor equity, that is, pay according to merit and performance. In more feminine cultures, resistance against women entering higher jobs tends to be weaker, so more women tend to be promoted into managerial positions.

Businesses in long-term oriented cultures are usually accustomed to working toward building up strong positions in their markets and they do not expect immediate results. In short-term oriented cultures, the bottom line tends to be a major concern, control systems are focused on it, and managers are judged by it. In long-term oriented societies, having a personal network of acquaintances is extremely important. The relational network lasts a lifetime, and people would not jeopardize it for short-term bottom-line reasons.

In societies that favor indulgence, employees usually consider that striving for happiness is a fundamental component of life, whereas in societies that favor restraint, employees generally attribute a secondary importance to leisure.

Adriana Victoria Garibaldi de Hilal

See also Cultural Attitudes in Multinational Corporations; Cultural Intelligence; High- and Low-Context Cultures; Individual Values; Interactional Model of Cultural Diversity; Multicultural Work Teams

Further Readings
There are many definitions of a decision support system (DSS). The broadest definition would be any use of readily available computer systems to aid decision makers in making a decision. This entry will review the more academic definitions of DSS.

Decision support system is a term that arose from research conducted at MIT in the 1970s. The definition was commendably broad, including the use of computerized systems to aid human decision makers by providing them better and more timely information, as well as the processing of this data in models. The type of model could range from database query to complex optimization. As the 1970s and 1980s proceeded, divergent views of DSS emerged. In the information systems academic discipline, the focus was on systems, providing data from various sources (internal or external), a tool-kit of models, and a user interface that was available in a timely manner. This view is reflected in the earliest DSS texts. Peter Keen and M. S. Scott Morton defined DSS as using computers to (a) assist managers in their decision processes in semi-structured tasks; (b) support, rather than replace, managerial judgment; and (c) improve the effectiveness of decision making rather than its efficiency. Ralph Sprague and Eric Carlson soon followed with another popular text, using this definition—interactive computer-based systems that help decision makers utilize data and models to solve unstructured problems. At that time, interactive computer access was a new concept. That no longer is the case, so that aspect isn’t so important anymore. DSS is still important to management theory because the other elements of their definition remain useful in distinguishing using computer systems to help humans learn about the implications of the various options available to them, hoping to lead to better, more effective decision making. The term was used early on in connection with commercial software products, a practice that continues to this day. Since the 1980s, there has been more focus on branches of DSS, to include computer system architecture, group communication support, and continued widespread use of the term in connection with models to aid interesting and important decisions. In this entry, fundamentals of DSSs are described in terms of their benefits. Types of DSSs are described, and the importance of DSSs in supporting human decision making is discussed.

Fundamentals

DSSs come in many forms. Their primary feature is harnessing computer power to aid decision maker learning about decision environments. DSSs generally accomplish this through access to data and models appropriate to the decision. There have been literally hundreds of papers using DSS as a keyword every year since 1990 by one incomplete search engine. These papers include many studies of DSS effectiveness. Some of these sources have contributed to the Wikipedia site. Benefits of DSSs include (a) improving personal efficiency, (b) speeding up the decision-making process, (c) increasing organizational control, (d) encouraging decision maker exploration and discovery, (e) speeding up
organizational problem solving, (f) facilitating interpersonal communication, (g) promoting learning or training, (h) generating new evidence to support particular decisions, (i) creating competitive advantage, (j) revealing new approaches to thinking about particular problems, and (k) helping automate managerial processes.

There are a number of different types of DSSs. Since the 1970s, the field of operations research has used the term DSS liberally whenever they have written articles proposing use of mathematical modeling to aid some specific decision. The difference between a management science analysis and a DSS is often blurry. Over time, the initial success of the approach led to a system that was used by the organization on a regular basis, thus transforming an analysis using data and models to an automated DSS.

D. J. Power has developed a taxonomy emphasizing assisting humans to make decisions. Power classifies at least five types of DSSs:

Communication-driven DSS supports multiple people working on a task. There is a well-developed body of research supporting the idea of group decision support (group support systems, or GSS; group decision support systems, or GDSS, etc.). These systems range from technically focused software such as Lotus Notes through dedicated meeting room software providing support to brainstorming, discussion, voting, and recording. Technology has made the use of cameras connected to desktops (now laptops and cell phones) and Internet telephone connections a cost-efficient means to communicate around the globe. That is not a DSS, but it accomplishes communication-enhancing decision making. Those products that are communication-driven DSSs accomplish much the same thing with the enhancements listed above.

Data-driven DSS emphasizes access to and manipulation of data. Online analytic processing (OLAP) is especially popular commercially. It is used to refer to storage in data warehouses. There are a number of variants:

- MOLAP (multidimensional OLAP) calls data stored in multidimensional nonrelational databases. This gives faster data retrieval than ROLAP but with the disadvantage that it can practically handle less data.
- HOLAP (hybrid OLAP) seeks to combine ROLAP and MOLAP, using MOLAP storage technology and ROLAP drilling-down processes.
- WOLAP (Web-OLAP) refers to systems accessing data from the Web.
- DOLAP (desktop OLAP) refers to systems accessing data from desktop environments.

Document-driven DSS addresses management, retrieval, and manipulation of unstructured information. This view treats database software as key. Document-driven DSS is focused on text manipulation, as opposed to the data focus of data-driven DSS. The field of text mining would certainly be an example of document-driven DSS.

Knowledge-driven DSS in Power’s taxonomy addresses specialized problem-solving expertise (especially tacit knowledge) stored as facts, rules, or procedures. This view can include case-based reasoning. Knowledge-driven DSS overlaps communication-driven and document-driven DSS.

Model-driven DSS emphasizes statistical, financial, or operations research modeling as discussed above. The Institute for Operations Research and Management Sciences has liberally used the term DSS whenever an application of operations research is applied to a decision (which is practically always). Expert systems are the next step once a DSS has been developed, automatically implementing the decision-making process that might be developed within a DSS. The field of data mining (business analytics) is closely related to operations research, applying statistical and artificial intelligence tools to practically every field of scientific and commercial research.

Importance

Our culture has developed the ability to generate masses of data. Computer systems expand much faster than does the human ability to absorb. Furthermore, Internet connections make it possible to share data in real time on a global basis. DSSs are thus needed to cope with masses of data in a
dynamic world where new problems challenges old ways of doing things. It is valuable for human decision makers to learn as much as they can about new situations and to explore the expected impacts of their decisions.

There is a clear need for many organizations to be able to process data faster and more reliably. Data mining (different from DSS, but related, as both seek to help humans learn) involves the use of analysis to detect patterns and allow predictions. It is not a perfect science; the intent of data mining is to gain small advantages, because perfect predictions are impossible. But these small advantages can be extremely profitable to business. For instance, retail sales organizations have developed sophisticated customer segmentation models to save sending sales materials to those who are unlikely to purchase products, focusing instead on those segments with higher probability of sales. Banks and other organizations have developed sophisticated customer relationship management programs (supported by data mining) that enable prediction of the value of specific types of customers to the organization and to predict repayment of loans. Insurance companies have long applied statistical analysis, which is extended by data-mining tools to aid in prediction of fraudulent claims. These are only three of many important data-mining applications to business. Models from data mining can be used as DSS models.

The field of operations research used the term to reflect a focus on models used to aid decision making (which was the original purpose of management science). This was reflected in many Interfaces articles reporting the use of models to aid decision making. A search of the INFORMS database through early 2006 identified 46 papers with “DSS” or “decision support system” in the title involving applications to a specific problem, 35 of which were in Interfaces. Many other papers include similar applications without the magic words in the title. This is certainly an appropriate use of the term DSS, although it clearly involves a focus on the aspect of modeling. A grant system that continues to encourage implementation of DSSs to specific problems, often over the Internet, has led to many practical software systems were delivered to the public by governmental agencies. Such systems can range from providing farmers tools to design irrigation systems to guides in calculating federal income tax.

In Europe, meanwhile, the idea of decision support focused on development of systems meant to incorporate multiple criteria analysis into decision aids. Systems such as analytic hierarchy process (AHP), preference ranking organization method for enrichment evaluations (PROMETHEE), ELECTRE, and others have been marketed as DSSs. Selection decisions are challenging, because they require the balancing of multiple, often conflicting attributes, criteria, or objectives. A number of interesting tools to support selection decision making have been presented. Expert systems try to emulate the decisions of an expert in some particular problem domain and include ways to automate decisions in repetitive environments. These are appropriate when rare expertise exists or when complex operations would be improved by precise actions. Rare expertise can be preserved and multiplied. Often, the motivation for an expert system is the computerization of rare expertise. In concept, an individual who is very good at a specific type of analysis can be used as the basis for developing an expert system to replace the expert. In practice, nobody claims to replace the expert but rather to use the computer system to clone and transport the expert throughout the world, recording the expertise in the organizational knowledge base. The difference between an expert system and a DSS is that expert systems are for repetitive tasks, or they wouldn’t be worth developing, whereas DSSs in concept were targeted on helping humans learn the complexities of a new problem. DSSs need to be flexible, to respond to changing environments. Expert systems in concept could replace human judgment for well-defined, specific applications.

DSSs can thus appear in many forms. There are many useful systems. Their primary feature is to harness computer power to aid decision makers learn about their decision environment. The original systems in the 1970s were basically spreadsheet models (in a time when spreadsheets had not yet appeared). Interactive Financial Planning System (IFPS) is an example, created by Jerry Wagner. The most persistent and leading texts have been the various editions of Efraim Turban. As modeling tools have evolved, group systems better support communication and collaboration, expert systems enable automation of decision making, and data mining expands the scale of data that can be examined. Decision support has always been an evolutionary
field, and will continue to evolve as computer tools and data availability expand.

David L. Olson

See also Bounded Rationality and Satisficing (Behavioral Decision-Making Model); Decision-Making Styles; Image Theory; Knowledge-Based View of the Firm; Learning Organization; Managerial Decision Biases; Organizational Learning; Prospect Theory

Further Readings
Reading, MA: Addison-Wesley.

Decision-Making Styles

Decision-making style is an individual’s preferred way of perceiving and responding when faced with a problem-solving situation. This represents a combination of a person’s innate personality-driven preferences with his or her learned and habitual responses that have been developed over time and through experience. Scholarly interest in decision-making styles comes from the recognition that individuals can exhibit a particular or dominant behavior in the way they approach decision making, and that an understanding of this and the factors influencing such biases and preferences can help improve the quality and effectiveness of individuals’ decision making. This entry outlines two key models of decision-making style (rational vs. intuitive and autocratic vs. group decision-making approaches) and considers their implications and those factors influencing differences in decision-making styles.

Fundamentals
A long-standing distinction is made between rational and intuitive decision-making styles. A rational approach is typified by making decisions in a deliberate and logical manner. This tends to be linked to a structured decision methodologies and reliance on existing concepts and cognitive categories to filter data. An intuitive individual is seen as working on the basis of a hunch or impression of an issue or situation. This is associated with iterative and trial-and-error decision-making approaches, where the individual’s focus tends to be on the stimulus for the decision itself. Much of the rhetoric on organizational decision-making tends to focus on the development of and mechanisms for rational approaches, but there is a growing recognition that effective decisions and decision makers combine rational and intuitive approaches. A major financial investment tends to be associated with need for rationality, whereas strong emotional investment tends to be linked with an intuitive bias. Hence, significant decisions such as purchasing a house that contain both financial and emotional elements tend to combine both approaches.

Other work has extended this rational-intuitive model; dependency is seen as a significant approach by a number of authors. Dependent decision makers are seen as requiring the advice, direction, and support of others when making decisions. Although this can be a dysfunctional style, in that it can manifest itself as a reliance on others, it also can be seen positively as a bias toward involving and engaging others in the decision-making process and is therefore an approach that supports employee involvement and engagement. Susanne Scott and Reginald Bruce suggest that individuals in their decision-making styles can, additionally, be either avoidant or spontaneous. An avoidant individual would typically seek to postpone or avoid making a decision. A spontaneous decision maker is likely to be impulsive and prone to making “snap” or “spur of the moment” decisions. Spontaneity is a trait typically valued by organizations, but this is not without the risks associated with undue haste, and while an avoidant approach
is also potentially dysfunctional, it also perhaps represents a more considered approach to decision making than the focus on spontaneity encouraged by many organizations.

Victor Vroom and his coworkers have developed a different perspective that focuses on decision participation styles and suggests a continuum from autocratic approaches at one end to a group decision making style at the other. An autocratic style involves minimal input from subordinates (as providers of information), with a manager making a lone decision on the basis of the information available at that time. A group approach is predicated on a high level of subordinate involvement, with the manager delegating the decision to a group. The group then becomes responsible for making the decision through consensus. Between these approaches sits a consultative approach. This involves sharing a decision with subordinates (either individually as a group) to get their views on the decision, but significantly, the decision remains the responsibility of the individual manager and may or may not represent the views expressed by subordinates through consultation. Again group and consultative styles support employee engagement and involvement. Although the nature of the decision and constraints such as time might affect the selection of these choices, a manager’s approach will also be influenced by his or her personality, individual preferences, and experiences.

A number of factors are therefore seen as significant in influencing decision-making styles. The availability of information and access to existing knowledge are likely to be significant in influencing the choice between rational and intuitive approaches. Other aspects of the decision environment such as the availability of time and significance of the decision (in individual and organizational terms) are also significant. Organizational factors identified as affecting the choice to use differing styles include structure, culture, and communication. As also suggested, individual differences play a part. An individual’s information-processing capacity has been linked to rational versus intuitive preferences, as has the extent to which individuals need structure and tolerate ambiguity. Personality, perception, experiences, and attitudes to involvement and risk have all also been argued as significant factors influencing preferred decision-making approaches.

The preceding outline indicates that when describing decision-making styles, there exist a variety of approaches and a number of self-assessment tools exist that allow individuals to surface and explore their decision-making style preferences. Different styles should not be viewed as better or worse than each other. Alternatives represent a range of attitudes and approaches; individuals may have a tendency to an approach but adopt different styles depending on the decision, its context, and other significant factors. What is important is that individuals recognize the implications of the styles they adopt.

David Philip Spicer

See also Bounded Rationality and Satisficing (Behavioral Decision-Making Model); Ethical Decision Making, Interactionist Model of; Garbage Can Model of Decision Making; Intuitive Decision Making; Participative Model of Decision Making; Programmability of Decision Making; Strategic Decision Making; “Unstructured” Decision Making

Further Readings
Dialectical Theory of Organizations

The dialectical view grew out of a critique of existing theory and research. The critique advanced the following arguments: (1) The praxis of rational structuring confined the field to the study of how to make organizations more efficient and effective. (2) The rational and functional explanations legitimized the ideology that existing organizational practices are justified by their rationality or functional necessity. (3) Thinking of organizations in rational and/or functional terms tends to reproduce the existing organizational structures and practices. (4) Rational and/or functional thinking tended to separate organization studies from other fields of inquiry. Organization analysis was seen as a field concerned with organizations seeking to achieve goals in a rational way. (5) The role of internal power and interests in shaping organizations was understated or folded into the rational or functional explanations. (6) The connection of organizations to larger systems of power and domination, both as a contributor to those larger systems and as products of those systems, was neglected. The entry first outlines four arguments fundamental to the dialectical view, showing how these provide a framework for building more specific, testable theories of organizations. These general arguments are on a level of abstraction similar to structuration theory, developed by Anthony Giddens. It is argued that people, acting under specific sets of circumstances and structural locations, construct organizational arrangements. They develop ideas and interests and pursue their implementation. They confront contradictions of the structure and opposing sets of interests. Actions and outcomes are affected too by the embedding of organizations in totalities consisting of institutions, networks, and cultures. The dialectic view also calls for a praxis of enlightenment and liberation to guide organization studies rather than a narrow pursuit of effectiveness and efficiency. In the second section, the entry briefly assesses the impact of the dialectical view on the development of organization studies in recent decades. Here, it is shown that a number of different versions of dialectics have been developed and that empirical work guided by these ideas extends to a number of empirical literatures, including power inequalities, gendered practices, technological choices, policy studies, strategies, and network linkages. Some progress has also been made by various scholars in integrating dialectical theory with other strands of organization theory such as institutionalism.

Fundamentals

In “Organizations: A Dialectical View,” Benson outlined four “principles” of a dialectical approach to organization studies, drawing from Marxian and phenomenological theories. Together these provided a framework for thinking about organizations and developing theoretical and empirical work in this field of study. We begin with a restatement of the four fundamental principles of the dialectical view.

Principles of the Dialectical Theory of Organizations

Social construction/production, the first principle, advances the idea that people construct organizations through their ongoing activity, including their social definitions and actions. Partly, they produce the organization purposefully and mindfully, but partly, they produce it through their ongoing practices and interactions. Also, they produce the organization under existing structures, conditions, and circumstances not of their own choosing. The existing social structures, power alignments, and other conditions (e.g., environments and markets) often result in unintended consequences. In this way, the dialectical view challenges the view that organizational structures and practices result from rational choices of the most efficient or effective arrangements.

Benson argued that social construction/production is shaped by the interests and power of the actors both inside and outside the organization, not strictly by the rational pursuit of goals or the fulfillment of needs. Here, he was influenced by Mertonian functionalists Phillip Selznick and Alvin Gouldner; by Ralf Dahrendorf, a critic of functionalism; by Gideon Sjoberg’s concept of “contradictory functional requirements”; and by Michel Crozier’s study of the power inequalities of departments in a factory.

Contradiction, the second principle, is the idea that opposing tendencies are deeply rooted in organizations. When people act and engage in intended or unintended construction/production,
they run into resistance, opposing interests, existing structures, and practices resistant to their actions. The previously produced social arrangements, the opposing projects of social construction, and the entrenched interests and practices resist, stall, deflect, and redirect the process of production. Even the formal structure of the organization, its division into ranks and divisions, creates unintended consequences. People occupying particular positions defend their interests and try to control events in their favor. Power struggles develop and result in negotiations and compromises. There is a sense of irony or paradox in these works. Human action to construct a rational, effective social structure meeting needs or objectives produces a recalcitrant apparatus.

Contradiction has been developed also in the Marxist tradition, where it is theorized that social formations have deeply rooted opposing tendencies. Mihailo Markovic saw the contradictions as both objective structures and collective intentions in the sense of “we contradict” the system by pushing it beyond its limits. Benson held ontos both of these meanings while also dealing with contradictions formulated by Claus Offe and Jürgen Habermas. Contradictions bring elements of a system into conflict in a way that threatens its foundations. Offe, for example, argues that commodification of labor power is an essential tendency of capitalism, but its development produces countermovements toward decommodification.

**Totality**, the third principle, calls for organizations to be understood in their contexts, including both the larger or macro social formation—for example, power structures, cultural patterns, economic systems, globalization, and the meso-structures such as occupations, networks, industries, and fields. In addition, totality demands attention to the emergent social worlds within the organizations—interest groups, gender differences, ethnic solidarities and conflicts, professional divisions, and so on. Alternative realities are constructed within the framework of the official structure of the organization. These alternative forms sometimes become collective projects and social movements challenging the existing order and bringing forth new orders. A dialectical approach brings these alternative worlds into view and examines their potential to reorient the organization. It looks at the possible futures of the organization.

Thinking of the organization as a totality is the opposite of abstracting the organization from its context. Conventional organization theory generated models of organizations as if they were separate entities with distinctive internal social patterns that distinguished them from the larger environment. The dialectical view develops the embedding of the organization in its context, seeing it as an integral part of a social formation. Connecting the organization to the environment requires a theoretical model of that relation. In the Marxist tradition, for example, organizations are understood as parts of the capitalist mode of production. Class conflict, exploitation, and alienation in the organization derive from the contradictions of capitalist systems. Welfare programs, labor market legislation, investment controls, industrial policies, globalization, and other developments have produced different forms of capitalism.

**Praxis** refers to the commitment of organization studies to the production of forms of social organization. A dialectical approach involves reflexivity—that is, a reflexive understanding and examination of the connection of knowledge to the production of social worlds. In part, this knowledge is critical of the stance of the dominant rational theories that are often engaged in the production of more efficient, more effective organizations without critically examining the uses of organizations. Rationalization of organizations is used not only to make commodities such as automobiles more efficiently but also to establish efficient regimes of social control and domination. In extreme cases, even genocide is efficiently organized by rational bureaucracies. Economic theories and management studies of organizations are often committed explicitly to the implementation of their work through the production of more efficient and effective organizations. There is often a kind of moral commitment to rational structuring in order to produce more goods at more affordable prices, to integrate a country into the capitalist world system, to organize an effective military campaign, and so on. By contrast, the dialectical view advances a praxis of liberation or emancipation of people from systems of domination. An emancipatory praxis does not necessarily lead to abandonment of bureaucracy and resort to totally nonhierarchical, undifferentiated forms of organization. As Stewart Clegg and Wynton Higgins cogently argue, efficient bureaucracies are necessary to implement social reforms and programs of
liberation. A praxis of emancipation requires careful analysis of the administrative means of reform and liberation. For example, Wolf Heydebrand and Carroll Seron dealt with the contradiction between the ongoing administrative routinization of the federal district courts and the professional autonomy of federal judges.

Some strands of Marxian thought have addressed these problems. In particular Henri Lefebvre described his position as “possibilist” in the sense that praxis may produce changes in social organization that cannot be predicted or determined in advance; thus, through praxis reforms are possible. The trajectories of development do not form a determined sequence of specific organizational forms. Reforms of capitalism growing out of praxis are possible and may move the system in unanticipated directions. Michael Burawoy has explored some of the varied structures regulating the capitalist labor process. Analysts of state socialist systems have adapted Marxian thought to the critique of those social formations.

**Importance**

The importance of the dialectical view is that it provides a framework for thinking about organizations that stimulated new thinking by others. The components of the dialectical view are open to development. Scholars cannot “test” the theory per se because there are no predictions; however, other scholars have developed predictions or explanations by elaborating the implications of the view in specific empirical arenas. As such, it has inspired much attention, commentary, critique, and extension. For example, Kenneth McNeil notably critiqued the proposed approach and argued instead for a Weberian perspective. In the mid 1980s Lex Donaldson developed a critique and defended the rational-functional reasoning in contingency theory, whereas around the same time, Michael Reed proposed a somewhat similar dialectical approach based on structuration theory. In recent decades, a number of theories and studies have proposed additional dialectical perspectives. A consensual formulation of dialectical theory has not been produced. Rather, a rich diversity of formulations now exists. Some of these developed directly out of Benson’s formulation. Others have different origins.

**Political economy** is an empirically oriented theoretical approach. Mayer Zald worked on power structures controlling exchanges and negotiations within organizations and on social movements in organizations. The dialectical view provides a way of thinking about and developing political economy theory. It is possibilist rather than determinist. It deals with social construction of the power structures. It deals with contradictions within the political economy and between the political economies of different sectors, industries, and fields. It pushes toward totality, the analysis of the system of political economies—for example, the multi-organizational systems where the contradictions of capitalism are managed through organizational and interorganizational apparatuses. Claus Offe has analyzed the contradictions of such systems. Harland Prechel has developed a historical contingency analysis of public policies affecting the operation of capitalist corporations.

The totality principle might be extended by taking account of institutional theory and research. Institutional theory challenges the rational model of organizations and opens up the many unregulated and unrecognized forms of dependence between organizations and their social and cultural contexts. Seo and Creed argue that the dialectical view provides a solution to the theoretical dilemma of embedded agency in institutional theory. Seeing the organization as a process driven by contradictions and opposing interests accounts for the emergence of alternative arrangements. Thus, they reject the coherence model of the organization still embedded in institutional theory. They go on to identify a series of organizational contradictions. Elizabeth S. Clemens and James M. Cook analyze contradictions in the study of political institutions. Proponents of critical management studies, Mats Alvesson, Hugh Willmott, and others, analyzed many forms of institutional shaping of organizational practices, including capitalism, gender inequalities, racial discrimination, and others. Robert Thomas showed how professional ideologies and power shaped the selection and development of new technologies in manufacturing firms. Vedran Omanovic showed how the power and administrative structures of a large manufacturing firm in Sweden shaped its implementation of a diversity initiative by focusing it on diversification of ideas rather than on diversity of genders and ethnicities. Karen Ashcraft and Dennis Mumby developed a dialectical approach to the interweaving of gender differences in organizational structures and practices.
The dialectical theory may help broaden managers’ decision-making frameworks, challenging the narrow, rational choice perspective and questioning the effectiveness of the strategies and structuring options available to managers. For example, it may challenge the preeminence of “shareholder value” as the primary rationale for managerial decisions and open consideration of other “stakeholders.” The dialectical perspective may help illuminate the multiple interests and power structures shaping the organization. The manager may better recognize the limits on the capacity of managerial decisions to shape outcomes. It may also help mobilize a wider range of stakeholders challenging public and corporate policies and organizational structures. Managers may then work in a more democratic political-economic environment that liberates them from the narrow range of options allowed by currently dominating interests.

J. Kenneth Benson

See also Circuits of Power and Control; Critical Management Studies; Institutional Theory; Interorganizational Networks; Social Construction Theory; Structuration Theory

Further Readings


DIAMOND MODEL OF NATIONAL COMPETITIVE ADVANTAGE

Casual observations and ample anecdotal evidence support diverse arguments attempting to explain why particular industries in some nations are more competitive than the same industries in other countries. It is hard to argue against the global competitiveness of French perfumes, Italian shoes, German tool and die machinery, or Indian software services. In tackling this issue, the discussion below answers the questions: Why do some nations and their industries outperform others, and what are the implications for individual firms.

To shed light on the questions and provide an alternative to traditional economic theory explanations, a team lead by Michael Porter of Harvard University embarked on an ambitious study of 10 major trading countries and focused on specific industries within these countries that were known to be global leaders. Histories and case studies of 100 industries were developed, and patterns among them were outlined. The results were reported in a major volume of work published in 1990; the proposed diamond of national competitive advantage represents a framework that purports to parsimoniously identify the factors that create the conditions for competitive industries and provide the foundations for globally competitive firms. Ever since its introduction, the model has been debated and elaborated on as much as tested to ascertain the factors validity and their relevance for other countries. In the following few paragraphs, we explore the diamond model, discuss some of the most notable additions and critiques that have been debated since its original presentation in 1990, and consider some of the connections between the model and other related work that attempts to explain and inform the factors responsible for the competitiveness of different industries and nations.
Fundamentals

Four broad national attributes individually, and as a system, constitute what is termed “the diamond of national advantage.” Arguably, these attributes determine the conditions and become the catalyst for the competitiveness of individual industries within particular nations. They shape the environment in which local firms compete and determine the advantage bestowed on the firms by their “home base” and place of origin. The diamond presents both the parameters presumed to be responsible for a nation’s competitive advantage and the dynamic processes within industries by which such advantage was created. The four attributes are factor conditions, demand conditions, related and supporting industries, and the firms’ strategies, structures, and rivalry. Two additional elements address the role of government as an influencer and catalyst of structures and conditions, as well as the reality that many situations occur and critically influence outcomes but are chance events that fall beyond the control of any player in the industry and the market. Within the expanded diamond, each of these attributes plays a determinant role in creating a nation’s competitive advantage in a particular industry.

Factor Conditions

Human resources; physical resources such as land, water, mineral deposits, and hydroelectric power sources; knowledge resources and a nation’s stock of scientific, technical, and market knowledge; capital resources; and a nation’s infrastructure in transportation, communications, and power constitute the factors of production. They represent the inputs to a firm’s activities; a nation’s endowment plays a pivotal role in the competitive advantage of its firms. Many of these factors are not naturally inherited to a nation but are created through various processes and over time.

Classical economic theory posits that factors of production, such as land, labor, and capital, represent the inputs to a firm’s value chain and create the goods and services that the firm sells to its markets. While many of these factors are essentially basic factors in that they are inherited and exist to varying degrees throughout the world, many of the more advanced factors are developed over time through investment and effort. Companies and nations seeking competitive advantage over firms in other nations must create many of the advanced factors of production, such as technology, skilled labor, and modern infrastructure. For example, a country or industry reliant on innovation requires strong universities, research institutes, and a skilled human resource pool to draw from. These factors are not inherited but are created through investment in industry-specific knowledge and talent. Similarly, the supporting infrastructure of a country, its transportation and communication systems, its banking system, and its power grid as well as its health care system are equally critical and require time and huge investment to get established.

For a nation’s competitive advantage, factors of production must be developed that are industry and firm specific. Moreover, while the total pools of resources at a firm’s or a country’s disposal are on their own right important, the speed and efficiency with which these resources are deployed tends to be more critical for the competitive advantage of the firms and the industry. At times, it is not the abundance but the scarcity of resources that triggers a competitive advantage. For example, Japan has little land mass, rendering real estate prohibitively expensive and forcing firms to reconsider their warehouse and inventory storage needs. Out of necessity, Japanese firms pioneered just-in-time production processes and lean inventory management, creating a resource that yielded competitive advantages over firms in other countries still employing traditional warehousing methods.

Demand Conditions

The composition and nature of home-market demand for the industry’s products or services and the pressures exerted by sophisticated customers force firms to design innovative products and responsive product offerings. Such pressures present challenges to a country’s industries and in response to these challenges, improvements to existing products and services often result, creating conditions necessary for competitive advantage over firms in other countries. Countries with demanding consumers drive firms to meet higher standards, upgrade existing products and services, and create new offerings. Their industries can better anticipate future global demand conditions and proactively respond to product and service requirements before competing nations are even aware of the need for such
products and services. For example, the Danes’ environmental awareness has spurred demand for environmentally safe products and has stimulated Danish manufacturers to become leaders in water pollution control equipment, wind energy turbines, and other green energy products that they also successfully export to other nations. Canada’s abundance of metals and mineral resources has created a world-renowned mining industry, the world’s largest stock exchange for the sector, and a host of industries in mining exploration, engineering, and development, which today successfully compete against the larger nations around the world. Similarly, its vast landmass has always presented unique challenges in bringing people and goods together and has sprung a global industry for telecommunications.

The sheer size of the home market and the complexity of its segments, the rate of growth of home demand, and the early onslaught and saturation of the market contribute to create and amplify the nation’s competitive advantage and internationalize the products of the particular industries. The U.S. automotive industry has developed in large measure in response to the early adoption of the car by the masses, the large size of the home market, and Americans’ love of their automobiles.

**Related and Supporting Industries**

The presence of supplier industries and other related industries within the nation and the competitiveness of these industries confer advantages creating stronger firms in the downstream industries that become internationally competitive. Robust suppliers and related industries experiment, innovate, collaborate, develop complementary products, perceive new methods and processes, and identify new applications for their latest technologies. Industries in nations with strong related and supporting industries capitalize early on them to expand internationally and establish a global competitive advantage.

Related and supporting industries enable firms to manage inputs more effectively. Japanese firms draw on the capabilities and skills of exceptional local suppliers of numerical control units, motors, and other components to produce world-class machine tools. Swiss global prowess in pharmaceuticals is closely connected to early achievements in the chemical and dye industries. The international success of Italian footwear is built on a range of related industries in leather processing and tanning, in specialized machinery and machine tools, and in design services. Italian shoe manufacturers are located near their suppliers. They interact on a daily basis with their leather suppliers and learn about new textures, colors, and manufacturing techniques while a shoe is still in the design stage. The manufacturers are able to prepare their factories for new products long before companies in other nations become aware of the new styles.

Nations with a strong supplier base benefit by adding efficiency to downstream activities. A competitive supplier base helps firms obtain inputs early and rapidly, sometimes with preferential access, using cost-effective, timely methods, thus reducing manufacturing costs. Close working relationships with suppliers provide the potential to develop competitive advantages through joint research and development and the ongoing exchange of knowledge. Arguably, strong local suppliers still benefit downstream industries, even if they themselves do not compete globally. Similarly, related industries offer opportunities for shared activities and technical and information interchanges as well as cultivate new entrants to the focal industry, increasing competition and forcing existing firms to continuously innovate; run tight operations; and develop novel approaches to their business.

**Firm Strategy, Structure, and Rivalry**

The conditions within a nation governing how companies are created, organized, and managed determine the nation’s competitive advantage. A good match between the companies’ choices and the various sources of competitive advantage in a particular industry result in a national advantage. The ways in which firms are managed and how they choose to compete are influenced by national context and the particularities of any given country, its culture, its norms, and attitudes toward authority and individualism. Italy’s and Israel’s global firms are relatively small and family owned, reflecting individualist cultures and strong family ties. German success is usually based on meticulous engineering and technical inclination that produces a constant flow of methodical product and process improvements.

Company goals and corporate governance influence the use of invested capital and the pressures for short-term results versus patient investment in
long-term research and innovation. Company goals are set and reflect ownership structures. Shareholders in countries such as Germany, Switzerland, and Japan tend to be institutionally affiliated and have different orientations from those in the Anglo-Saxon countries of the United Kingdom and the United States. In turn, they exert different influences on the affairs of a corporation and favor industries in lower risk contexts, requiring modest initial risk capital and heavy but sustained long-term investment and reinvestment.

Vigorous domestic rivalry is strongly associated with the creation and persistence of an industry’s competitive advantage. Rivalry is particularly intense in markets with strong consumer demand, strong supplier bases, and high new-entrant potential from related industries. Such competitive rivalry, in turn, pressures firms to concentrate on the efficiency with which they develop, market, and distribute their products and services. Domestic rivalry also compels firms to innovate and find new sources of competitive advantage. It forces firms to search beyond their national boundaries for new markets, setting up the conditions for global competitiveness. Among all the attributes of the “diamond” of national advantage, domestic rivalry is, arguably the strongest indicator of global competitive success. In numerous examples Porter described in the original book, firms that have experienced intense domestic competition are more likely to have adopted strategies and structures that allowed them to successfully compete in world markets. Intense rivalry from IBM and Hewlett-Packard has spurred companies such as Dell Computer to find innovative ways to produce and distribute their products. Intense rivalry among Japanese automobile manufacturers in their home market has produced a lineage of global competitors in Toyota, Honda, and Nissan.

Government

The role of government in determining national competitive advantages has been debated extensively throughout the international business literature. In the diamond model, the government is not viewed as a determinant, in and of itself, but as an influencer of the four attributes. Government can influence either positively or negatively local demand conditions by establishing standards and regulations and through its vast purchasing power as a major buyer of many products and services. It can shape factor conditions through subsidies, policies toward the capital markets, education, or protectionism. Government legislation, tax policies, and antitrust laws influence rivalry and firms’ strategic orientations, as well as their corporate governance and accountability. Finally, related and supporting industries are affected in innumerable ways through mechanisms such as industrial policies, environmental regulations, and public partnerships.

Chance

While the determinants of national advantage shape the environment for competing in particular industries, the histories of most industries also include many chance events that critically influenced their success and competitiveness. Wars, oil shocks, commodity scarcities, inventions, nature’s calamities, and blessings have played major roles in building competitive advantages. Wars have spurred the growth and development of chemical, pharmaceutical, and heavy-metal manufacturing and related industries, which later became global leaders from their home bases in Germany and Japan. Oil shocks hit Japanese industries early and hard because of the country’s exclusive reliance on energy imports and forced these firms to take aggressive innovative steps toward energy conservation and lean manufacturing. Yet chance events have asymmetric influences and in and of themselves do not always lead to competitive advantage. Favorable national attributes are also necessary to convert chance events into advantages. For example, insulin was first isolated in Canada, in spite of no particular favorable demand conditions or other circumstances. Subsequently, however, insulin became an international commercial success by Danish and American companies, based in countries possessing specialized factor pools, favorable demand conditions, and other national advantages.

The diamond model posits that economic clusters and co-location of industries are beneficial to achieving global success. Moreover, its author asserts that considering the evolution of diamond, it can explain the competitive development of entire nations. Namely, it argues that economic development is closely tied to competitiveness and identifies four stages of industrial development that correspond to competitive advantages derived from specific conditions. The first stage is “factor-driven,”
and the industries that are successful are those where companies can compete on the basis of low cost, be that labor or materials. Only one attribute of the diamond offers an advantage. At the second stage, “investment-driven” success arises from heavy investments in factories and infrastructure. Here, three attributes of the diamond are relevant—factor conditions; demand conditions; and firm strategy, structure, and rivalry. At the next stage, the nation finally achieves prosperity, as the full diamond is in place in a wide range of industries and “innovation-driven” competitiveness draws on a host of emerging industries. However, nations are led to decline in prosperity as they move to a “wealth-driven” stage and their citizens’ and organizations’ interests shift away from creating wealth through investment and innovation to preserving entrenched positions and insulating themselves from risk and competition. In consequence, the model can explain success in international trade, account for national prosperity, provide a framework for empirical work, and inform policy prescriptions on national competitiveness.

Evolution

The model’s conceptual roots drew from international economics and neoclassical industrial organization economics. The initial appeal and positive reception had as much to do with the author’s global standing as one of the most influential scholars in strategic management as it had with the simplicity and directness of the conclusions. The model provided an easy source of relevant answers at a time of major shifts in global business, the opening of many markets, the globalization of trade, the establishment of regions of free-trade agreements, and a heightened awareness for the need of countries, industries, and firms to be globally competitive.

The introduction of the diamond model in 1990 set off a multitude of responses, ranging from glowing endorsements to outright denunciations. Some scholars heralded it as the bridge between strategic management and international economics, a dynamic model that both described and explained the development of globally competitive industries and the ultimate answer to a nation’s quest for economic prosperity. Its detractors lamented the many contradictions and ambiguities, the lack of rigor in the logic, the methodological deficiencies, and the circular arguments. Others deplored its limited generalizability and the selective choices of countries and industries to tell a certain story that could not be replicated in other settings.

A number of nations were eager to undertake their own analyses and proceeded to sponsor comprehensive studies of their competitiveness. A series of academic papers were published aiming at testing the model. For the most part, the studies were plugged by methodological challenges that arose from conceptual problems inherent in the model; they offered limited support for or refuted the conclusions of the model. Scholars attempted to augment the original diamond with (a) double diamonds (in the case of Canada and its intertwined automotive industry, which is fully integrated on a North American basis), (b) supranational diamonds (in the cases of Mexico, Austria, New Zealand, or Hong Kong, whose competitive strengths rest on their ability to draw on other countries’ diamonds), and (c) proposed additional elements, in some cases expanding the number of attributes to nine.

Importance

No doubt, the diamond model generated substantial discourse and brought to the front many aspects of the debate on national competitiveness. While the diamond model’s explanatory and predictive abilities have been undermined by rigorous analysis, it has retained its popularity to a large extent because of its simplicity and intuitive appeal. Whether it possesses the descriptive and explanatory power its author and admirers claim or simply offers commonplace assertions and unfounded, if not dangerous, prescriptions as convincingly have argued its detractors, it has succeeded in being inserted in almost every textbook in strategic management and international business and in being referred to in classrooms, boardrooms, and public policy meetings.

Public policy officials, keen to develop and support globally competitive industries in their jurisdictions, have seen the diamond as a framework that can inform their policies and guide related initiatives. Their attraction toward the model emanates from its commonsensical logic and parsimonious structure. Work on economic clusters and business ecosystems, which provide similar viewpoints, collaborate and complement the prescriptions that arise from the diamond. Both policies that encourage strengthening the factors of the diamond and those that would
Differentiation and the Division of Labor

Division of labor can be broadly defined as the specialization of cooperative labor in specific tasks and related roles or functions. It is a key concept in management and economics and regarded as one of the pillars of the increased productivity of modern and developed industrialized societies. It is also the cause of economic interdependence between different actors in an economy. In this entry, we discuss the development of these concepts from their roots in Greek antiquity to theories that emerged during the industrial revolution to concerns about alienation, exploitation, and class conflict, ending with an account of systems theory.

Fundamentals

The division of labor and the differentiation of tasks and roles can be described on various levels, ranging from division of labor between individuals and groups to that of organizations, states, and societies. Various disciplines take very different views of the phenomenon. In the management literature, particularly when applied to business, it is mainly discussed in terms of: (a) vertical differentiation, which is the establishment of defined spheres of authority and responsibility derived from the larger organizational power structure. These are usually represented as differentiated levels of the hierarchy, and (b) horizontal differentiation, which is the compartmentalizing of defined areas of engagement derived from the larger organizational domain. These are usually represented as differentiated specializations such as by function (e.g., manufacturing, marketing, research and development, etc.), division (e.g., by product, geography, customer), or business unit.

There is broad consensus about the benefits the division of labor brings for the productivity of an organization as well as the economy as a whole. This is central to the seminal work of Adam Smith, who in his 1776 book *An Inquiry Into the Nature and Causes of the Wealth of Nations* begins in Book 1, Chapter 1 with a discussion titled “Of the Division of Labour” and the argument that “the greatest improvement in the productive powers of labour, and the greater part of the skill, dexterity, and judgment with which it is anywhere directed, or applied, seem to have been the effects of the division of labour.” Here, he delineates a framework for understanding these benefits, which arise from what he considers to be three primary factors: (1) Development of expertise and skill: When people focus on a narrow set of tasks they acquire greater understanding of and dexterity in performing these
Differentiation and the Division of Labor

(2) **Increase in efficiency:** Time normally wasted ramping down from one task and ramping up to another (e.g., physical as well as mental transfer time) is reduced. (3) **Greater propensity for innovation:** Increased familiarity and experience in a specialized area allow workers to create advanced machines and methodologies that make their work easier as well as more productive.

Subsequent research has established that as differentiation increases the complexity of production processes and organizations, it also increases the need for coordination, control, and management. When a productive process is segmented into small parts and the individual contributor has only a limited understanding of how the task is related to the end product, integration becomes essential to put the differentiated parts together again. It is also a necessary precondition of any change of the way the work process is structured and organized.

The extent to which certain forms of differentiation can be dysfunctional and detrimental to the development of individuals, organizations, and societies is a matter of debate. Critical analyses argue that the separation of labor and managerial control and power deprive individuals of a meaningful activity, that specialization will lead to an increasingly narrow skill set (de-skilling) on the part of the worker, and that the power structures that underlie these inequalities tend to be rigid, undemocratic, unfair, and self-perpetuating. This view is often identified with Karl Marx and his concept of worker alienation. Similarly, the view of organizations as rationally designed and stable systems has also shifted to one that recognizes the cognitive limitations of decision makers and assumes a high degree of reciprocal dependence of any system and its subsystems with the environment. In a world in which information is limited, decisions take place under uncertainty, and rationality is "bounded." The structure of an organization, if conceptualized as an open system, is no longer seen as the result of a rational process of organizational planning and design but as a cybernetic system whose characteristics reflect of the demands of the environment with which it interacts.

**Evolution**

Early discussions of the division of labor date back to ancient Greece, when these considerations were a part of philosophy. The focus was mostly on individual characteristics and on how these related to a desirable form of society and the state. Xenophon’s biography of Cyrus the Great contains an analysis of how occupations differ in a society; he pointed out how occupational roles can vary depending on the size of the city workers live in. Marx later referred to this as the basis of the idea that specialization is related to the size of a market. Plato’s *Republic* contains more explicit references to this topic. The division of labor was, in his view, a natural necessity, given that talents are unequally distributed. In an ideal state, ruled by philosophers-kings, but with common ownership of resources, members of a state would contribute to the best of their abilities. His pupil Aristotle, who was opposed to the concept of the philosophers-king and unification, instead propagated private property as a basis of wealth creation.

**Increasing Labor Productivity in Organizations**

The division of labor was initially heralded as one of the key achievements of early industrialization. This stage is synonymous with the work of Adam Smith and closely associated with Frederick W. Taylor’s scientific management, as well as Henry Ford’s mass production of cars in the United States. The concept has developed considerably since then, but in its original stage, it was largely shaped by two authors who published their work during the English industrial revolution. Although they were friends, 18th-century philosopher Adam Smith and historian Adam Ferguson looked at two very different aspects of the division of labor.

In *An Inquiry into the Nature and Causes of the Wealth of Nations* (discussed earlier), Adam Smith used the example of a pin factory to explain the increase in productivity that results from a standardized process in which a holistic production is divided up into small segments. The beneficial effects of the division—or “partition”—of labor had previously been discussed by philosopher David Hume, but not in great detail. In Smith’s example, each worker would be responsible for only a single part of the production process and as a result of this form of specialization would be more productive. Ferguson also referred to the pin factory example, much to the outrage of Smith, who suspected his friend Ferguson of plagiarism. However, while Smith saw the division
of labor as the driving force of increased productivity and national wealth, Ferguson was mainly interested in the societal consequences and the increasing degree of reciprocal dependence of human beings. His description of the reality of highly differentiated work and social status included phenomena that Karl Marx and others would later discuss under the heading of alienation and exploitation.

Adam Smith’s thinking was extended by Frederick W. Taylor in the late 19th century in what he himself later called *The Principles of Scientific Management*. Like Smith, Taylor believed in optimizing labor processes and maximizing productivity by dividing a complex task into easily manageable subtasks, and he also agreed that this increased productivity would be a pillar of the welfare of society as a whole. However, Taylor added that empirical science—instead of rule of thumb and tradition—should be applied to establish the ideal way to accomplish a task. Time and motion studies should help understand and improve production processes and minimize health hazards. Once the “one best way” of accomplishing a task had been identified, it should be communicated as “best practice,” standardized quickly, and the implementation of the standard monitored closely. Manual labor and managerial control should be kept separate to maximize the effectiveness of control and to introduce changes more effectively. Taylor argued that the system of scientific management was in the interest of both employers and employees. As production processes were increasingly complex, no single individual could master them in their entirety, and new subtasks could be added where necessary. He recognized that standardized processes could be repetitive and left no freedom for individual variation. This, however, did not represent a problem for him; it meant that objective science and transparency trumped individual preferences and dysfunctional habits. The resulting increase in productivity—including a reduction in accidents—should be reflected in higher wages for the worker so that the interests of employers and employees were in equilibrium. Taylor’s work is today often identified with Fordism and mass manufacturing. However, it appears that Henry Ford and his management were unaware of Taylor and simply arrived at similar conclusions at more or less the same time.

**Solidarity, Alienation, Exploitation, and Class Conflict**

At about the same time, French sociologist Émile Durkheim published his dissertation “The Division of Labor in Society.” Instead of optimizing labor productivity, Durkheim was interested in how social order was maintained, and how more “primitive” societies advanced and would eventually become “industrialized.” Durkheim suggested that societies were bound together by solidarity. The type of solidarity differs depending on how developed the society is. Primitive societies were kept together by *mechanical solidarity*, with people thinking and acting alike, rooted in a collective conscience. Such a society would be cohesive and integrated because people’s personal and working lives are similar. Advanced, capitalist societies, on the other hand, in which labor is differentiated, are bound together by *organic solidarity*. In this case, cohesion results from a higher degree of complementarity and interdependence. Durkheim regarded the division of labor as both risk and opportunity, depending on the state of a society. A high degree of differentiation, he argued, would weaken mechanical solidarity, as people have less opportunity to act in the same way. At the same time, it would strengthen organic solidarity, as people were becoming more interdependent. Modern societies bound by a high degree of organic solidarity and interdependence have the potential for more sustainable cohesion, easier conflict resolution, and a meritocratic distribution of economic benefits. Durkheim believed that the consequences of an increase in the division of labor could be either positive or negative, depending on the state of a society. As societies change toward a more advanced and industrialized stage, the risk of lack of solidarity and appropriate norms—and potentially anomic division of labor—increases. This is where Durkheim’s sociological perspective and the work of Smith and Taylor differ fundamentally: Differentiation—and the division of labor and responsibilities—has an effect that goes beyond maximizing productivity. In increasingly complex and urbanized societies, organic solidarity and high interdependence have the potential to avoid and resolve conflict and to maintain social order.

Karl Marx, who had started his work some time before Durkheim, was less optimistic in his assessment of the effects of the division of labor.
In a process he termed *alienation*, workers are expropriated—forcibly deprived of any control over what and how they produce—and become detached from the meaning of the result of their work and the objects they produce. Repetitive activities begin to have a depressing effect on the individual and deprive him or her of the characteristics of meaningful work. Marx pointed out that power was unequally distributed between those who were engaged in the production process and those who controlled the means of production, and—in contrast to Taylor—he argued that the division of labor often reflected this power and status asymmetry more than a technological necessity. Marx therefore drew a distinction between the technical and the social division of labor. While he recognized that some forms of differentiation are technically inevitable, Marx argued that many other forms of division of labor are, at least in part, socially constructed and directly related to status inequalities between the ruling and the working class. The ruling class, however, would use the technical dimension as an excuse to perpetuate status differences. The existing system was, he argued, a necessary evil that would eventually be transcended in a communist society. This is where Marx differed from Durkheim. Marx saw the division of labor as unjust, unfair, and alienating; whereas Durkheim argued that it might enable individuals and societies to become interdependent and more cohesive in the long term. Marx held that it would contribute to the perpetuation of the dysfunctional status asymmetries of the class system rather than foster a system of meritocracy in which each individual could find his or her own place. And unlike Durkheim, he expected a revolution in which the working class would take charge and end the evil of the division of labor rather than a society that is stable in the long term.

Marx’s hypothesis of labor and the unequal distribution of power has since been applied to various contexts, ranging from relationships between countries—with imperialism and colonialism being the most obvious examples—to gender settings within organizations and the changing nature of work. There has been much debate about how inequality and injustice related to the division of labor can be self-perpetuating and how phenomena such as the digital divide—a situation in which the underprivileged have less access to digital technology and therefore find it increasingly difficult to catch up—stabilize such inequalities. However, enthusiasm for Marx’s historical determinism—the idea that revolution and a communist society would eventually be inevitable—is limited.

**Importance**

The impact of the concept of differentiation and division of labor on the theory and design of organizations is significant. Irrespective of the potential effect this might have on the individual, differentiation and division of labor were key features of what classical organization theory would regard as the ideal organization. Max Weber, while conscious of the downsides of bureaucracy, described it as a rational system with clearly defined roles and responsibilities, strict hierarchies, abstract rules that apply universally, and a process of hiring and promotion that would be based on qualifications and performance. Taylor had advocated a separation between labor and control. It was not enough to divide a complex production process into appropriately small elements (differentiation); these elements had to be connected appropriately (integration), and results had to be monitored constantly (control). This is in line with the work of early 20th-century French industrialist Henri Fayol, who was later popularized in the United States by Luther Gulick and Lyndall Urwick. Using the acronym POSDCORB (planning, organizing, staffing, directing, coordinating, reporting, and budgeting), their view of the responsibility of a chief executive officer—or subdivisions responsible for each of these areas—summed up the essence of classic administrative management. The formal structure of authority and the division of labor defined in the organization stage would be integrated in the coordinating stage. Balancing differentiation on the one hand and integration and control on the other are key. Formal organizational structures and processes reflect the need for differentiation, integration, and control in complex environments, where separate departments—and individuals belonging to these departments—are responsible for distinct parts of the total output of an organization, and decisions and activities are integrated on the next higher level of the organizational hierarchy. There are various taxonomies of mechanisms of control, ranging from Harry Braverman’s self versus managerial control to Richard Edwards’s personal,
Differentiation and the Division of Labor

technical, and bureaucratic control. Modern taxonomies of mechanisms of control, such as by Austin Türk, are structured along the activities of human resource management and separate pre-organizational, social control (early socialization), potential control (selecting, allocating, and educating personnel), and organizational action control (by means of technology, bureaucracy, job design, differentiation, or personal).

Whether organizations should be regarded as rational and whether the formally differentiated hierarchies of modern organizations are the result of an intentional process of organization design is a matter of debate. James March and Herbert Simon argued that, as organizations involve decisions of people who have only limited information and who are cognitively biased, the rationality of organizations is necessarily limited and that they “muddle through” as a result. Organizations were increasingly described as open systems, and the concept of a rational machine that, although it served the outside market, was designed to work in a stable way without reciprocal dependence on the outside world was described as a closed system approach.

A system would be commonly defined as a group of elements (e.g., people, equipment, behaviors) that interact, share a common purpose, and are separated from other systems by a boundary. Evidently, biology was one of the most important sources for theory development in this area, and organizations were frequently compared to organisms. In contrast to the closed-systems perspective, the open-system view would regard an organization as an entity that transforms inputs taken from the environment to produce and return output to the environment—and the organization would itself change as a result. The organization, its structure and processes, becomes an integral part of the environment in which it operates. External factors, such as suppliers, distributors, competitors, and the regulatory environment, are more than external constraints; they have an impact on the organization itself. As organizations respond to their environment, their survival is a matter of fit and adaptability, and balancing integration and differentiation is a core element of an organization’s ability to respond to changes in the environment. The work Paul Lawrence and Jay Lorsch published in the late 1960s was exceptionally seminal. They introduced a contingency theory of how an organization and its subunits adapt to meet the demands of their immediate environment. Daniel Katz and Robert Kahn similarly described organizations as open, cybernetic systems, consisting of cycles of events, with a tendency for homeostasis and an inbuilt desire for growth to ensure their own survival. Differentiation on the one hand and integration and coordination on the other are important features of open as well as of closed systems, but design, implementation, and structural changes are viewed very differently. In a closed system, the structure of an organization would be intentionally designed by management, implemented, and then monitored and kept constant. In an open systems view, management is just one of many subsystems of a larger system, and this system has its own goal and is constantly evolving in response to the environment on which this organization is reciprocally dependent. Empirical data support the hypothesis that organizational structures and differentiation vary depending on the complexity of the environment: Lawrence and Lorsch reported that subunits of large organizations in the chemical industry that dealt with complex tasks in rapidly changing environments (e.g., R & D) were less structured and hierarchical, were more focused on the long term, and had a more heterogeneous understanding of the common purpose. Those organizations that operated in a more stable environment (e.g., production, marketing and sales) were more differentiated and hierarchical, focused on the short term and had a clearer understanding of a common goal.

Differentiation and the division of labor are key characteristics of modern management. No reader would envision a work environment without division of labor and structural differentiation. However, there are trade-offs between differentiation on the one hand and individual needs and organizational requirements on the other. It is essential to strike a balance between (a) a useful division of a complex process into manageable subactivities that can be honed to perfection by means of best practices and (b) the degree of fragmentation that entirely detaches the individual from the meaning and deprives him or her of any sense of purpose that can be derived from this activity and its outcome. Similarly, it is important to realize that an increase in differentiation brings with it the need for more integration and control and that these forms of control can become dysfunctional, rigid, and self-perpetuating. As organizations operate in environments that require rapid
change to maintain strategic fit, the distribution of labor and structural differentiation will necessarily remain in flux—which limits the degree to which integration and control can be kept constant. Managers as agents of change will be required to retain a high degree of flexibility in how they assign responsibilities, integrate results, and exert control.

Oliver Fischer and Lorenz Fischer

See also Bureaucratic Theory; Contingency Theory; Diversification Strategy; Environmental Uncertainty; Job Characteristics Theory; Managing Diversity; Organizational Effectiveness; Scientific Management

Further Readings


DISCOVERY THEORY OF ENTREPRENEURSHIP

The discovery theory of entrepreneurship is particularly based on the work of Israel Kirzner. His theory addresses the working of the price system or, as it is often termed, of the market process. It holds that, contrary to neoclassical economics, markets are in disequilibrium, as the real world is in a state of constant change. This gives entrepreneurs, who are seen as people who are alert to opportunities for profit, a central role in the price system as arbitrageurs. This is reflected in much entrepreneurship literature through a focus on the opportunity as the unit of analysis. Entrepreneurs are said to first discover and then to exploit opportunities. Discovery-related research has addressed why opportunities exist and why some people are more alert to them than others. This entry first summarizes Kirzner’s theory and then discusses empirical research on entrepreneurial alertness in addition to alternative views of the functions of the entrepreneur within an economy. It will also discuss creation theory as an alternative to discovery theory.

Fundamentals

Kirzner is an economist of the Austrian school of economic thought. In his writings on the market process, he has built on the work of Ludwig von Mises and of Friedrich Hayek. According to his theory, an opportunity for profit arises whenever any sellers in a market are willing to sell at a price lower than any buyers are willing to pay. Entrepreneurs can then earn profits by acting as arbitrageurs and in so doing push the differing prices together. The entrepreneurs can do so because of their alertness to the profit opportunities of which other market participants are unaware. It is entrepreneurs, therefore, who give predictability to market outcomes by exploiting such opportunities, systematically correcting market errors, and redirecting resources as exogenous shocks take place.

The theory extends beyond pure arbitrage by incorporating production. A profit opportunity exists where the resources required to produce and distribute a product can be purchased more cheaply than the product can be sold. This is often referred to in terms of a “means-end framework,” where a recombination of resources is the means by which the end, the production and sale of the product at a profit, can be achieved. Note that, although Kirzner downplays it as not being essential to his aim of addressing the market process, it logically follows that this fundamentally changes the nature of entrepreneurship, compared to pure arbitrage, because
commitments to expenditures and the revenues that follow become temporally separated. What was pure arbitrage therefore becomes speculation, requiring subjective judgment; a view has to be taken of possible future sales prices. Entrepreneurs then face the possibility of losses if future prices turn out to be unfavorable.

Kirzner further holds that entrepreneurs do not carry out deliberate searches for opportunities. Rather, opportunities are discovered spontaneously. Hence, those individuals without the alertness required to discover opportunities will fail to exploit them, even though they may have all the information required. The theory is therefore based on an assumption of irrationality, in the form of individuals failing to fully mentally process all their knowledge. Entrepreneurs are those with a superior rationality, in the form of alertness to opportunities.

Note that the Kirznerian concept of entrepreneurial opportunity discovery is based on a functional view of entrepreneurship. In contrast to most work within the entrepreneurship literature, anyone carrying out the disequilibrium-correcting function is an entrepreneur. This could be anyone, such as a corporate executive, and not just one of the more restrictive definitions of the entrepreneur often used in entrepreneurship literature, such as a business founder, small business owner-manager, or self-employed person.

Kirzner provided a theoretical framework designed to analyze the market process. Others have applied key aspects of that framework in the study of entrepreneurship. In particular, this has involved taking the opportunity as the unit for analysis, with opportunities being first discovered and then exploited. Further, not everyone acts as an entrepreneur because only some individuals have the alertness necessary to discover opportunities. Opportunity and alertness are subject to varying definitions, just as is the case with the entrepreneur.

One line of empirical research has investigated alertness in terms of whether business founders do more to position themselves within information flows and use more diverse information than corporate executives. This research stream has produced mixed results. Prior experience, job role, and social networking are also held to be significant to an individual’s information flows, so helping to determine their likelihood of discovering opportunities.

Another line of work has been the study of alertness in terms of the cognition of entrepreneurs. This employs theories from psychology. For instance, it has been claimed that entrepreneurs may use different types of mental schemas (i.e., mental models) compared to nonentrepreneurs and that they may be more intuitive. There is not yet a sufficiently large and mature body of empirical research to be able to confidently identify particular characteristics of entrepreneurial cognitions in relation to entrepreneurial alertness or to reject the concept. It may be that the idea has more traction with the case of serial entrepreneurs whose experience leads them to form new cognitive frameworks.

A different line of work, based on informational economics, has investigated whether entrepreneurs deliberately search for opportunities, in contrast to the nonsearch assumption of Kirzner. Hence, this is a separate line of work to those based on Kirznerian alertness and spontaneous opportunity discovery. It has been found that some entrepreneurs do indeed carry out deliberate searches and that those who do so discover more opportunities. Novice entrepreneurs have been found to search widely, while serial entrepreneurs narrow down their search domains. This line of research also claims to offer a means by which people can be taught to be entrepreneurial.

Alternative Approaches

Entrepreneurship based on arbitrage can be contrasted to entrepreneurship based on innovation, although the distinction is not entirely clear cut. Schumpeter described the functional role of the entrepreneur as an innovator. According to Schumpeter, entrepreneurs initiate gales of creative destruction and therefore destroy existing equilibriums, in contrast to the equilibrating role of the Kirznerian entrepreneur. However, Joseph Schumpeter contrasted invention and innovation. We could say, therefore, that someone discovers an opportunity to innovate when they realize that an idea to do something novel can be gainfully exploited, although invention and opportunity discovery may often be simultaneously achieved by the same person. This provides a link to Kirzner’s conception of the entrepreneur, at least in cases where the innovation involves dealing with existing markets. However, whereas arbitrage involves buying and selling in existing markets, the introduction of a new product involves market
making, as there is no preexisting market for the product. This is therefore an important source of uncertainty for the entrepreneur.

In addition, innovations often involve trial-and-error learning, such as in what have been termed probe and learn processes. The entrepreneur does not always start out with a well-defined idea that stays constant during exploitation. Rather, things can develop in an iterative process of learning and adaptation. A danger with discovery theory, in which the entrepreneur discovers an opportunity and then exploits it, is that such learning and adaptation processes are ignored, the entrepreneur being assumed to exploit a fixed opportunity, or that they become something of a footnote that does not really fit the theoretical framework being used. In fact, this problem also arises in relation to less innovative entrepreneurs; they may also change what they are doing following market feedback.

What has been dubbed the “creation” theory of entrepreneurship in modern entrepreneurship literature gives an alternative theoretical framework to discovery theory that seems compatible with more innovative entrepreneurial processes. Rather than seeing opportunities as existing independently of the entrepreneurs who exploit them, it views entrepreneurs as the creators of the opportunities that they exploit; opportunities are seen as social constructions formed through action as opposed to being formed through exogenous changes in conditions. It stresses iterative decision-making processes that progressively change entrepreneurs’ beliefs about opportunities as they interact with the market. The theory posits that there may be very little difference between entrepreneurs and others at the time when they first begin to act entrepreneurially but that they may develop large cognitive differences over time.

A further alternative theoretical framework to discovery theory is that of Frank Knight. Knight also gave a functional view of the entrepreneur. Knight’s entrepreneur exercises subjective judgment in the face of Knightian uncertainty, as opposed to risk, in the hope of earning pure profits. Entrepreneurs are seen as being the confident and the venturesome and employers of the doubtful and the timid. Some modern writers on entrepreneurship have claimed that the Knightian view provides a superior theoretical framework to discovery theory. They propose that it is taking action under Knightian uncertainty that truly characterizes entrepreneurship and that a lack of markets for judgment explains why entrepreneurs exploit ideas themselves. Sometimes such action is described in terms of undertaking an entrepreneurial project in which resources are brought together for a significant duration to exploit an opportunity.

**Importance**

The adoption of a discovery-based theoretical framework was partly a deliberate attempt to differentiate entrepreneurship from other fields of study. The study of new and small firms was not seen as achieving this aim. Instead, entrepreneurship research could be directed at issues such as how opportunities come into existence and why some people discover and exploit them while others do not. Unfortunately, empirical research into entrepreneurial alertness cannot yet be said to have yielded a convincing set of results. This may be partly because empirical studies take more restrictive views of what an entrepreneur is than the Kirznerian functional view would suggest. It may also be that it tends to be serial entrepreneurs who are particularly alert to opportunities rather than entrepreneurs in general. Indeed, many entrepreneurs are pushed toward founding businesses by circumstances rather than being pulled by strong business ideas. Opportunities also vary widely in nature, some requiring expert and some only basic knowledge to understand them. In some cases, what makes someone interested in pursuing an opportunity may simply be the realization that others have done well out of pursuing similar opportunities—for instance, when considering whether to launch into a competitive industry during a period of growing demand. On the other hand, a highly innovative opportunity requires more of a jump into the unknown. Some scholars have criticized discovery theory and have proposed alternative theoretical frameworks for the study of entrepreneurship. Nonetheless, discovery theory remains a dominant theoretical framework within entrepreneurship literature. Its real-world impact is, however, difficult to assess.

It is not obvious that actual managers and entrepreneurs have been directly affected much by discovery theory. Management courses in entrepreneurship often include some discussion of the problem of discovering opportunities in some form. However, this is often addressed in terms of alternative concepts, particularly creativity and innovativeness. It
is possible that being told that one should build up a body of experience and gain information through networking in order to identify opportunities may change a student’s subsequent real-world behavior to some extent. However, the idea that superior cognitive abilities are required is of less practical help to the prospective entrepreneur unless means are identified through empirical study by which such abilities can be developed in order to make individuals more alert to opportunities. The market process view of entrepreneurship is, however, important as one of a set of theories demonstrating the economic importance of entrepreneurs whose dynamic economic role is ignored in neoclassical economic theory. Its impact on policymakers is therefore easier to distinguish, having helped to lead to a more widespread teaching of entrepreneurship courses. It has also helped to lead to wider efforts by governments to encourage entrepreneurial activity.

Nigel Wadeson

See also Entrepreneurial Cognition; Entrepreneurial Opportunities; Entrepreneurial Orientation; Schemas Theory

Further Readings


Diversification Strategy

Diversification strategy is a firm growth strategy based on expanding the scope of the business segments where the firm competes. With the aim of taking benefit from running a wider business portfolio, governing supplementary resource breadth, and tapping into scope economies, firms attempt to enter into new businesses by a variety of means, such as merger and acquisition deals with an existing firm, internal start-ups and spin-offs, and equity joint ventures or strategic partnerships. The key argument of diversification strategy is that operating more businesses can be a value-enhancing strategy. The purpose of this entry is to review the ideas and key outcomes outspreading from the managerial debates that have progressively unfolded on diversification strategy. We shall then present a discussion of the following key questions: Why do firms diversify? What are the potential traps of diversification strategy? What is the relation between diversification strategy and shareholder value creation?

Fundamentals

Diversification strategy involves two explicit levels of firm strategy: (a) corporate strategy and (b) business strategy. The former entails gathering in the same basket two or more business segments and, therefore, how corporate headquarters is expected to coordinate all the business segments they have chosen to operate. At the corporate level, the challenge is usually to generate synergies among businesses, thereby avoiding the traps of management complexity overload. The latter—that is, business strategy—concerns instead planning and implementing strategic actions to allow each particular business to accrue value and accomplish economic and financial success.
The coordination among business strategies and the role of the corporate headquarters may vary according to the type (or direction) of diversification: related versus unrelated. Related diversification concerns managing the various value chains of a firm’s businesses to allow synergies to emerge, since the value chains between and among business segments are seen as similar or complementary. The potential synergies of related diversification are given by (a) economies of scope, (b) market power, (c) sharing tangible and intangible resources and capabilities, (d) common value chain activities, (e) transferring core capabilities from a business to other businesses, and (f) vertical integration. Unrelated (or conglomerate) diversification occurs when firms, rather than seeking “strategic fit” and “synergy capture” in the value chains as in related diversification, are motivated to diversify mainly by financial reasons and managerial knowledge and expertise. Consequently, the benefits of unrelated diversification generally do not exceed the ones given by “financial” and “managerial” synergies. While unrelated diversification aims to capitalize on the governance of resources in firms that typically tend to be widely decentralized, conversely related diversification entails an important role for the firm’s headquarters, which is expected to coordinate and reconnect various business units and swell synergies among them. (Alfred Chandler provides an appealing discussion of the “entrepreneurial” and “administrative” role of the HQ.) In the latter case, the goal of adopting the related diversification strategic option is to perform a more proficient transfer of resources and capabilities between and among businesses than alternative transaction modes do.

Since the seminal works of Igor Ansoff, Alfred Chandler, and Richard Rumelt, for almost four decades, the study of the characteristics instrumental to generate or destroy value in related and unrelated diversification strategies and the inquiry about to what extent diversification strategy is able to allow the firm to achieve performances superior to other strategies have taken a central role in the research agendas of two substantial fields of investigation: corporate finance and strategic management. Here, we concentrate on the underpinnings and impact of views and tools cooked up in the strategy realm.

If we take a step backward, during the 1960s underscoring the good performance of some conglomerate firms, diversification management advocates pushed executives for an increase in the firms’ degree of diversification. In the 1970s, instead, growing interest has gradually coagulated on shaping and applying a few managerial tools supporting strategic portfolio planning of diversified firms. Two diagnostic tools acquired prominence at that time, such as the growth-share matrix and the industry attractiveness-business strength matrix. Forged on the ground of the learning curve in the intelligence workshops of two globally established consulting firms (i.e., respectively, the Boston Consulting Group and McKinsey & Co.), these popular strategy paraphernalia were designed to help balance the cash flows of various businesses at different stages of their life cycles. The matrices have been (and are still) widely used in consulting and managerial activities. More recently, because of the impact of the core competence movement in the 1990s, diversification strategy trend has reoriented to the issue of divesting unrelated businesses to focus on the firm’s core business portfolio.

Importance

Understanding the Reasons Why Firms Diversify

To elucidate the key motives for pursuing a diversification strategy, we recall three different, but to some extent complementary, perspectives: (a) diversification as a value-enhancing strategy, (b) strategic flexibility as a driver of diversification strategy, and (c) managerial discretionary power as an antecedent of diversification strategy.

Diversification as a value-enhancing strategy. Diversification strategy, according to Michael Porter, is effective or value enhancing when the following conditions emerge: The industry is attractive in the long run as concerns the size of the market and its projected growth, profitability, competition intensity, and so on; the profit opportunities are higher than the cost of penetrating new markets; and the firm is able to generate synergies between the old business segments in which it operates and the new ones (the so-called better-off test).

The motives that explain why a collection of different businesses can outperform a stand-alone business enterprise and, therefore, the positive value of the better-off test are summarized as follows. The first set of motives to diversify is based on market power generated by the benefits of the scope when firms go into new markets. Market power concerns
the vertical integration of businesses (i.e., backward or forward vertical integration). Accordingly, under this stream of thought, related diversification is usually preferred to unrelated diversification. Nonetheless, collusive power also supports cross-subsidization among businesses and, hence, the possibility of implementing a predatory pricing strategy. In this case, related and unrelated diversification strategies are deemed both equally applicable with similar results.

The second set of reasons to diversify is based on the combination and sharing of resources and core capabilities among businesses. This set of motivations looks at how the resources of different businesses may be suitably connected in the diversification mode and identifies the conditions to assist corporate executives to formulate a successful diversification strategy. More in detail, firms’ managers may take advantage of this condition when factor markets are unable to provide resources efficiently to competitors. While the marginal costs of using these resources within a firm are low, the benefits associated to their use are substantial. The firm’s goal becomes to take full advantage of the resources liable to market failure by diversifying into businesses other than the one already under reach. Under these circumstances, a related diversification strategy usually outshines unrelated diversification strategy.

The third set of motives to diversify puts emphasis on the benefits of the firm’s internal capital market in providing financial viability to firm investments, thereby reducing business risk through compensation between positive and negative performances in the different businesses, circumventing transaction costs and the costs of information asymmetry associated with the external financial market and fiscal benefits. Since, in this instance, a diversification strategy’s main purpose is to reduce risk, unrelated diversification is preferred over the related one.

Strategic flexibility as a driver of diversification strategy. A second perspective on diversification strategy is linked to a stream of dynamic models of diversification. Firms employ diversification strategy to switch from businesses that are becoming unattractive to other businesses. Since the process at hand is highly uncertain and open-ended, firms may decide to pursue a diversification strategy for motives of learning and obtaining an array of new knowledge, resources, and capabilities required to compete in different marketplaces. For signaling reasons, such kinds of diversification strategy can be simply rubricated as sheer experimentation, or in a dissimilar way, firms’ corporate managers may purposefully decide to consistently boost up their investments in one or more new businesses.

Managerial discretionary power as an antecedent of diversification strategy. In a different fashion from the foregoing perspectives, agency theory assumes the existence of interests’ divergence between the firms’ shareholders and managers. According to this approach, the antecedents of diversification strategy are given by the two sides of the same coin: the shareholders’ limited information base, as well as the managers’ proclivity to pursue opportunistic behaviors. In this instance, the decision to hunt for a diversification strategy is a specific strategic choice taken merely for opportunistic reasons on behalf of the managers or, in other words, for pursuing Weberian power and prestige associated with managing a larger multibusiness firm or for chasing Schumpeterian empire-building strategies and entrenchment and risk reduction. Under this conceptual lens, unrelated diversification is usually preferred to related diversification.

Identifying the Potential Traps of Diversification Strategy

Running a focused firm is universally reputed to be a much simpler task than running a diversified firm. Actually, a larger breadth of businesses portfolio implies a higher level of managerial complexity. First and foremost, the strategic variety underlying diversification strategy imposes multiple dominant logics. Executives of focused firms mainly pay attention to a relatively narrow set of distinct market and technological stimuli. Therefore, strategic variety has important negative effects on the ability of the CEO and the executive team to manage a firm. In addition, managerial complexity in diversified firms generates the effect of information overload that, in turn, increases the intricacies of exercising strategic control over a diverse business portfolio.

Finally, managerial complexity in diversified firms also implies difficulties in assessing the (quality and amount of) creation of value for each business segment and, consequently, to execute an efficient resource allocation process. Actually, the
typical problems of diversified firms are related to overinvestment and subsidization of loss-making businesses. In addition, unrelated diversified firms frequently suffer from adopting a sheer financial perspective, which favors the pursuit of short-term profit, thus overlooking the possible loss in the firm’s long-run competitiveness.

**Linking Diversification Strategy and Shareholder Value Creation**

As earlier anticipated, two disciplinary traditions—namely, corporate finance and strategic management—have been used to congregate their investigation efforts (heretofore nearly always in an independent fashion) on diversification strategy. While studies in these veins display numerous contributions on the nature of the relation between diversification and performance, overall extent results fall short to present conclusive answers on the economic and financial impact that diversification entails.

First, while a few studies in corporate finance inquiry have argued that diversification strategy can create value, the majority of empirical contributions show a negative relationship between the breadth of business portfolio and performance (see Martin and Sayrak for a review). Accordingly, this stream of inquiry estimates the existence of a diversification discount: a multiple-segment firm’s value below the value imputed using single-segment firm’s multiples.

But second, if Athens cries, Sparta doesn’t laugh. While the relationship between diversity and performance has received a fragmented answer in strategic management literature, common wisdom bears that related diversification strategy is preferred to a single-business strategy. Actually, conventional empirical inspection, such as the study by Leslie Palich and colleagues, seconds the argument that performance tumbles when firms move from related diversification to unrelated diversification. Therefore, according to strategy literature, the best performance of diversification strategy is generated by the related diversification type or direction.

Third, let us complement the perspectives above with the institutional view of unrelated diversification strategy. A rather eminent research stream has recently argued that the relationship between unrelated diversification and performance is influenced by the institutional environment. In the view of Abhirup Chakrabarti and colleagues, depending on the context of application (more or less developed institutional environments), a well-designed and targeted diversification strategy may facilitate washing out asymmetric information problems and inefficiencies in the external capital market.

Fourth and finally, let us briefly review the main issues concerning variable measurement in diversification strategy. The first issue concerns the measure of corporate diversification. The literature presents us with two kinds of measures: (1) measures based on the Standard Industry Code (SIC) and (2) subjective measures of the type of diversification. While diversification measures based on SIC overall fall short of identifying the correlation among different businesses, subjective measures suffer from interpretive bias and are difficult to replicate. The second issue regards the measure of corporate performance. Interestingly, while strategic management research usually employs accounting-based performance measures (such as return on assets [ROA], typically adjusted for multiple years), assuming the existence of perfect markets, financial studies adopt market-oriented performance measures (such as Tobin’s Q).

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See also BCG Growth-Share Matrix; Business Policy and Corporate Strategy; Core Competence; Firm Growth; Managing Diversity; Strategy and Structure

Further Readings


Double Loop Learning

Double loop learning (DLL) is an action-oriented theory concerned with helping people and organizations face difficult situations by (a) uncovering serious flaws in the way they learn from their actions and (b) facilitating changes in the underlying values that govern learning in order to reduce defensiveness and produce effective action. DLL has had a significant impact on management theory and practice, because action, learning, and change are fundamental to everything that people and organizations do.

This entry contains two main sections. The first section addresses the fundamentals of the broader DLL theory, including the process that produces ineffective actions and interactions among people and how it may be changed to produce DLL. The second section discusses the validity and importance of DLL to management theory and practice.

Fundamentals

DLL theory begins with a straightforward observation: People can assert they have learned something when they can actually do what they claim they have learned. Yet the scholarship of action itself has been taken for granted in management on the assumption that once theory is advanced, implementation will be straightforward. In the early 1970s, Chris Argyris and his late colleague Donald Schön began an ongoing inquiry into the nature of practice itself in search for a theory that governs human and organizational action. DLL emerged from this inquiry, which Argyris has continued to refine in the decades that followed. The theory established that learning and action are intertwined and that both are essential for an effective implementation of management theory.

Action and learning. Action is fundamental to individual and organizational lives. People act to produce intended consequences, and they typically express their actions in conversations. Invariably, however, actions produce unintended consequences, particularly in difficult situations. Most learning occurs when people detect and correct mismatches or gaps between the intended and unintended consequences of their actions. This simple process, although prevalent, produces learning that is typically flawed because of hidden designs people hold without being mindful of their limiting effects.

The designs beneath. People act with two types of theories in their minds. The first, called “espoused theory,” helps them proclaim to the world what they ought to be saying, believing, or espousing. The second, called “theory in use,” is more influential because it informs what people actually do, regardless of their external claims. From examining over 10,000 individual and organizational cases, Argyris has found that the theory in use carries the same basic design across different situations, cultures, races, genders, ages, social statuses, and so on, although manifestations may vary. Notice the emerging promise here: By uncovering the principal structure of the theory in use, we can suggest changes to make learning and action more productive.

The overall structure of the hidden design goes as follows. A set of well-entrenched governing values informs the theory in use, which influences the action strategies people use to conduct their lives, and most learning occurs from detecting and correcting the gap between the intended and unintended consequences of these actions.

Components of the theory in use that describe how action is actually implemented are called Model I, which is associated with single loop learning (SLL). Components of the theory in use that prescribe how action should be implemented are called Model II, which promotes DLL. Clients should learn to surface and be aware of their use of Model I and its SLL before they are coached toward implementing Model II and its productive DLL. The broader DLL theory, therefore, is both descriptive and prescriptive.

References

Model I and SLL. The principal governing values of Model I are formed from our early experiences (in childhood, families, schools, etc.), and they govern daily actions with speed and automaticity. These values include internal instructions for people to (a) maximize winning and minimize losing; (b) maintain unilateral control over situations and others; (c) cover up negative feelings to save face, in the name of politeness and decorum; and (d) strive to appear rational. The impact of these governing values on action strategies is rampant, particularly under the threats associated with difficult situations. They lead people to persistently advocate their views over those of others, evaluate actions to support their positions, and make untested attributions about others’ intentions. The learning associated with Model I, SLL, aims to change the actions that lead to the unintended consequences, not the hidden governing values. These Model I action strategies produce rounds of misapprehensions, conflicts, and cover-ups, which are exacerbated by the defensiveness inherent in difficult situations. Defensiveness, it turns out, is a hallmark of Model I. Thus, reducing defensiveness is crucial to loosen the grip of Model I and SLL, the predicate to instilling Model II and DLL.

Defensiveness and defensive routines. For the purpose of the current discussion, defensiveness describes a psychological mechanism that people use to “castle-up” and shield themselves from perceived or actual threats or embarrassments. However, because defensiveness is triggered with speed and automaticity, it blocks the reflective learning needed to delve deeper into the root causes of difficult problems. Reflective learning is, therefore, blocked when it is needed most. Organizations create defensive mechanisms as well. Those within an organization imprint their defensive postures on the policies, processes, and cultures they create to protect their working units, and themselves, from potential embarrassments or threats. These imprints solidify over time into defensive routines, which prevent organizations from learning the root causes of their own difficulties. Because learning requires opening up and defensiveness leads to closing down, people facing potentially embarrassing or threatening situations tend to learn very little, if at all. How does it happen?

A four-step mechanism is responsible for arresting productive learning under the stresses of threatening situations. People who are on the defensive tend to (1) say one thing and do another, (2) deny or become unaware of the contradiction, (3) make the denial undiscussable, and (4) make the undiscussability of the denial itself undiscussable and close the matter. The result is a vicious, antilearning cycle that Chris Argyris calls the doom loop. Organizational defensive routines initiate a similar process, resulting in mixed messages and a series of escalating cover-ups. For example, a national foreign policy may claim to promote democracy worldwide, while simultaneously supporting some despots in the name of national interest. Policymakers would then design ways to make the contradiction undiscussable and then cover up the cover-ups.

Once managers and leaders are made aware of the intertwined effects of Model I governing values, action strategies, SLL, and defensiveness, the focus would then shift to finding a way out. Enter DLL.

Model II and double loop learning. Human actions will continue to produce mismatches and contradictions. The new Model II paradigm, however, suggests that instead of rushing to change the actions that produced the mismatches (a single loop move), people should first learn to be critical of their Model I values, assess the appropriateness of SLL for dealing with the situation at hand, instill a more effective set of values, and then deal with the mismatches based on the new governing values (a double loop move).

DLL, therefore, refers to a reflective learning process enabled by a new set of governing values designed to (a) promote valid, confirmable information about the difficult situations at hand; (b) foster rigorous mechanisms to question the status-quo; and (c) allow free and informed choice for those involved. Simple as it may seem, translating these new values into daily actions and interactions requires patience and tenacity because they would be competing with the well-entrenched, long-practiced Model I values.

With the new Model II regime, people would try to examine difficult tensions for the insights they may contain instead of just pushing their views to win debates and control arguments. They would learn to invite inquiries into the advocacies they make, expose the evaluations they produce to rigorous testing, and substantiate their attributions about others with examples of what led them to their claims. In daily actions, people would practice
to (a) be less conclusive and more open to others’ views; (b) be more confrontable and less confrontational; (c) adopt a healthy view of vulnerability as a strength, thus not feeling threatened by disconfirmation of their views; (d) minimize psychological distancing from others; and (e) minimize easing-in practices designed to corner others in order to prove a point.

DLL, therefore, is about reflecting on our reasoning process and how it impacts our actions and interactions. It is about both learning new governing values to question the status quo, and enabling productive conversations—initially “choreographed” for clients and then mastered with practice—to reduce defensive reasoning and promote effective action.

Four points are worth noting here. First, Model I and Model II should not have to be mutually exclusive. For example, SLL may be used in routine situations and to assess the efficient execution of existing goals, whereas DLL should be practiced to question goal validity and appropriateness, particularly in difficult and challenging situations. Second, DLL is useful for both individuals and organizations. In addition to fostering new interaction patterns, organizations would redesign their policies, procedures, structures, norms, and cultures to encourage rigorous questioning and experimentation on an ongoing basis. Third, genuineness is paramount in practicing Model II and DLL; setbacks will result if people just practice new Model II–like phrases and actions without striving to change the governing values behind them. Fourth, challenging existing Model I governing values may threaten a client’s sense of comfort and perceived self-competence; therefore, implementing DLL may initially trigger people’s defensiveness. However, as in combating a virus with a vaccine, the defensiveness temperature may have to rise before it subsides.

Importance

The broader DLL theory has had a profound impact on the thinking of scholars and practitioners. Over 10,000 mentions of DLL have been listed in numerous studies covering public and private sectors, including business, medical and health, education policy, classroom learning, and the military. Moreover, the theory has contributed to forging important management perspectives such as system thinking, and its parameters have been used to critique many contemporary management domains, including negotiation, strategy, decision making, communication, teams, diversity, and empowerment. Validating the entire DLL theory in single studies, however, has been less prevalent due in part to the time frame needed to incorporate DLL changes in organizations; still Chris Argyris, Peter Senge, and others have reported on long-term implementations of DLL in various work settings. The main critics of DLL draw attention to its difficult implementation, and stress current productivity levels as evidence that the status quo is acceptable. Proponents of DLL argue that while routine answers to important questions can still help meet existing goals “efficiently,” modern competitive work environments accentuate the need for deeper learning that promotes the sense of autonomy and responsibility among employees for them to question the “effectiveness” of those goals and the status quo—a process that DLL facilitates.

DLL can profit modern work environments, which are characterized by an increasing need for higher levels of effectiveness and innovation within an ever-changing cultural milieu and global competitiveness. This rapid pace distinguishes modern managers from their traditional counterparts who often surrender to fire-fighting modes to handle daily problems, only to face them later in more complex forms. In contrast, modern managers adopt a new way of reasoning that is consistent with DLL theory. They search for structures behind and beyond recurring problems, and they strive to create organizational cultures that foster this new way of thinking among their employees. In this transformative culture, managers and employees reflect actively on their own work and behavior. In doing so, they welcome accountability when surfacing and scrutinizing information that may be threatening or embarrassing in order to find long-lasting solutions. DLL offers a direction toward that change and a specific process to deal with the messy and wicked problems of the workplace. The broader DLL theory underscores to the action-oriented manager the importance of scrutinizing action itself and proposes (a) that action is expressed through daily conversations, (b) that action and conversations are influenced by the mental models of those who execute them, (c) that problems occur when espoused
visions and thoughts conflict with deeply held structures and assumptions of how the world works, and (d) that the strong influences of mental models and assumption often remain undiscussable. In searching for the undiscussable root causes and structures that lurk behind messy organizational problems, DLL cultivates a questioning mind-set for individuals and organizations alike. To execute this mind-set, DLL provides specific guidelines to modern managers and their employees for expressing actions in genuine daily conversations in order to scrutinize the status quo while simultaneously minimizing defensiveness and maximizing productive learning for individuals and organizations.

Abdelmagid Mazen

See also Action Learning; Action Research; Critical Management Studies; Experiential Learning Theory and Learning Styles; Learning Organization; Management (Education) as Practice; Organizational Learning

Further Readings


Dramaturgical Theory of Organizations

Theory is a loose and often contradictory matter in regard to explaining the dynamics of formal organization, because it requires an articulation of a substantive matter, “organization,” in which forms of rationality conflict with a higher-level abstraction or paradigm called a “theory.” A theory of dramaturgical style is a way of seeing or a perspective that when applied may include antinomies, contradictions, rhetorical breaches, and indeterminacy. As applied to organizations, dramaturgy is bifocal. It explores the organization as an actor as well as the constraints that organizations place upon actors’ demeanor. Dramaturgy and dramaturgical theory reflect the attempts to understand how members of organizations make sense and communicate about the rules, networks, alliances, and career contingencies that shape their lives. Everett C. Hughes has called this the study of systems of interaction that are the setting for the role-drama of work. Erving Goffman, a student of Hughes’s at the University of Chicago, developed a systematic analysis of impression management, or dramaturgy, which drew on the work of Kenneth Burke and Émile Durkheim. Organizations are places in which patterned, ongoing interaction occurs, and thus they are places to study the interaction order itself. In 1983, Goffman argued that the key concept for any social analysis is the interaction order itself: “Social interaction can be defined narrowly as that which transpires in social situations, that is, environments in which two or more individuals are physically in one another’s response presence” (p. 2). He locates this face-to-face domain as analytically distinct and calls it the interaction order. The interaction order is contained within organizations that can be seen as “actors,” units who carry out dramas, act out roles, tell stories about themselves, sustain impression management, face-saving, and use many strategies to gain, sustain, and increase their authority. The core idea, dramaturgy’s central contribution to management theory, is a metaphor that sees the organization as an acting unit that presents strategies and tactics designed to enhance the power and authority of the organization. The internal dynamics of formal organizations are illuminated by focusing on impression
management, leadership and team work, failed performances, and minidramas characteristic of such organizations.

Fundamentals

Dramaturgy is a metaperspective that makes sense of action at several levels whether it is carried out by organizations, groups, or individual actors. Dramaturgy as applied to organizations denotes analysis of the social by use of the theatric metaphor and a focus on how performances, especially teamwork, are enacted and with what effect(s). In the context of organizational analysis, dramaturgy takes the organization as an acting unit that can be seen as expressing itself, representing itself, and using symbols and rhetoric in the interest of creating, maintaining, and expanding their fields. Consider the idea of an acting unit, organization as a concept, and some aspects of organizational dynamics.

An acting unit may be a person, group, organization, and any meaningfully coordinated social phenomenon. Organizations, seen in the dramaturgical perspective, refer to a family of ideas: They are social objects that are authoritatively constrained, vertically and horizontally differentiated groups with relatively intense interactions within notable boundaries, technologies, and products. They are actors, or significant “acting units,” that perform, seek validation for their actions, manage impressions, compete with other organizations, possess both front and back areas, and manifest teams and teamwork. They produce selectively crafted, persuasive performances before audiences that emphasize or dramatize, overemphasizing some and de-emphasizing other features of action. They build for themselves little dramas, rehearse, and represent them to audiences. They employ strategies and tactics and seek to be trusted. They contain repetitive, common, but situationally and ecologically located and defined activities. Organizations are arenas for collectively situated action organized around tasks and routines. Technology and the material matters are embedded in a network of relations such that to study technology is in fact to study that network in which they are a signifying social object.

Organizations have a life within a network or field of other competing organizations. They must claim and sustain a mandate or, as Hughes contends, literally the right to define the proper conduct and ideas with respect to matters concerning their work. This mandate is based on a license, or a validated claim, to carry out tasks rather different from those of other people in exchange for money, goods, or services. The right to carry out these tasks is denied other occupational groups. For this mandate, organizations compete in a network of other organizations-as-actors: Organizations reside in and act in a web of similar organizations and audiences. They compete both materially and symbolically to control markets in ideas and money. It is useful, then, to see the mandate as in part based on rhetorical or presentational strategies for defending and expanding the mandate; resource-based strategies for deploying resources in the interest of sustaining some sort of market; and the tactics by which these are actually manifested in action. These rhetorics, strategies, and tactics are modes of dramaturgical action that implicate physical resources, technologies, and personnel. They represent and present the organization as coherent, viable, authoritative, and consistent in its actions, goals, and maneuvers. Organizations are contexts within which sanctioned practices are rewarded and an environment is shaped, defined, and responded to. This representational work goes on in spite of what is known by participants in the organization: the many cliques, vertical and horizontal coalitions, competing for authority and power; the conversation of rationalities brought to the question of ensuring the organization’s success; and the often-volatile nature of careers, employment, and markets. Organizations provide the context within which careers are fashioned and made real.

This organizational action, with its strategies and tactics, produces impressions as well as other kinds of information. Such communicating creates a web of social relations between collectivities. Organizational performances generate reactions, positive and negative, or feedback and reciprocity from audience(s), the process by which claims are validated (verbal or nonverbal, written or electronic). Failure to produce feedback and reciprocity requires repair, apology, or re-creation of the exchange. Performances are symbolic action, ceremonies that are multivocal and involve condensed symbols with many facets. Caught up in organizational action, actors “speak” to each other in organizational language by means of imagery, rhetoric, and even nonverbal performances. The performances of concern are the presentations of organizations to their
audiences—customers, clients, those served—and their own representation of their mandate. These may or may not be consistent: In times of change; there is often a “gap” between organizational performances for external audiences—stockholders, stakeholders, and customers—and the representation or view of the organization held by those who work there. There may also be contradictions between the messages and performances directed to the various audiences targeted, such as customers, stockholders, employees, and the general public. Organizations deal with these contradictions, as Thurman Arnold notes, by constructing complicated theories.

All mandates, whether in service industries or market-based corporations, are highly ritualized, or embedded in institutional accounts, “reasons why,” explanations for, rationales, and mini-ideologies required to minimize the institutional contradictions that arise. For example, police fight crime, but it varies sometimes inexplicably; hospitals provide care, but they must command profits; salaries and bonuses are incommensurate with profit levels. The repeated, often contradictory bricolage of an organization’s claims—such things as ethical statements, core values, mission statements, and even annual reports—might be called iterative tautologies insofar as they echo the rationalizing beliefs held and produced by the top command of the organization. Furthermore, the “bottom line,” market criteria for success, which is said to distinguish “service” organizations from businesses, is itself a social construction. What is valued is a social object defined within the conventions of the organization. Some would view hospitals, schools, and universities as “businesses” that should make a profit by serving while exploiting human miseries, curiosities, ignorance, and maladies.

Importance

Internally, organizations rest on compliance and loyalty or visible signs of actors’ involvement in the organization’s activities. The premise of interaction in Anglo-American formally organized environments is equality; reciprocity that requires deference and demeanor confirming that emotional tone and expression is fundamental to organizational functioning, and its absence leads to sanctioning. This is more likely to be visible in decisions made and dramatized by those residing in higher positions in the vertical hierarchy of an organization and seen as arbitrary and temporary by those serving below. Reaction to rules, including defining and refining organizational constraints, grants meaning to the formal “rules” of the organization. Rules that bear on organizational conduct are arenas for interpretation and interaction; these situated interactions produce the social objects called “rule following” and “rule breaking.” In this way, organizations shape and constrain the situations that actors face. Organizations are home to many rationalities or believed connections between the means employed and the ends sought: Organizations are often overflowing with abundant rationalities—that is, approaches that differ either with respect to means to achieving a given end or differing ends but agreed-upon means or some combination of these, including competing ends and means within an organizational domain. These in turn are the arenas for power struggles. These characterizations of organizational actions are themselves glosses on the processes by which organizations decide. It is useful in this regard to consider organizational deciding as situated rationality, or decisions validated as “rational” at the time they were made or later when they are recorded officially. The transformation of deciding into operating tacit conventions is an important topic for organizational studies in the dramaturgical style.

In effect, much organizational action is backstage, outside the vision of some actors, and almost always outside the view of the external or public audiences. Conversely, there is always a front, or a stylized version of organizational action, and a front stage. When scandals or media events alter the public’s understanding and trust of an organization, back and front stage are temporarily elided, out of balance, and must be redefined. Teams and teamwork that maintain the front stage/backstage distinction may be disrupted. Teams are based on a degree of shared secrets, and thus organizations are ensembles of secrets. There may then be conflicts between discrepant members not part of the dominant teams, between teams, and these against or with the dominant coalition in the organization. This is a theme in Goffman’s early work.

Finally, the issue for investigation is how the organization constrains situated actions, and how situated actions repeatedly reproduce what is taken to be organizational. These are matters that can be identified, observed, described, and measured: They
are features of organizations. The fundamental issue is how in the context of an organization, constraints are managed to sustain what Goffman calls a working consensus. This situated order may well be relevant to the central functions of the organization. Not all that is situated is shaped by structure and vice versa, but situated collective action is the primary locus of study for a dramaturgical theory of formal organizations. This focus on collective ordering and deciding requires a consistent focus on what is done—the tasks, practices, and constraints that shape the organization for participants. In a dramaturgical perspective, the organization is a container for observing conventionalized work practices. It is thus more likely to require ethnographic work, close-up observations of organization’s workings, and to discount the records, data, reports, and rhetoric of the organization absent such ethnographic materials. Since organizational processes create the meaning of the documents, they are meaningless without an understanding of context within which they were created. The ongoing tension in the field of dramaturgical studies is the question of generalization of the findings across organizations, cultures, and time.

Modern managers might recognize that much of what is carried out in an organization has to do with expressing feelings, connecting to other “team members,” telling stories to each other to enhance and maintain status, concealing and revealing information to sanction and control other members of the organization, and finally living out and talking about the “dramas of their organizational lives.”

Peter K. Manning

See also Bureaucratic Theory; Dialectical Theory of Organizations; Management Symbolism and Symbolic Action; Meaning and Functions of Organizational Culture; Organizational Culture Theory; Social Construction Theory; Tacit Knowledge

Further Readings


**DUAL-CONCERN THEORY**

Managers spend a good amount of time negotiating on matters where they need to reach agreement with others, for example, on department budgets, sales contracts, terms of employment such as salary and benefits, to name just a few. Indeed, negotiation is an important part of collective decision making in all walks of life, especially in legal, political, and business settings. It is an important aspect of dispute resolution, for example, when labor and management cannot agree about a wage level, as detailed in the classic text on labor negotiation by Richard Walton and Robert McKersie. Other cases of negotiation are about deal making, wherein agreement brings value to the parties by establishing the parameters of a commercial partnership or joint venture or through an exchange. In negotiation between a buyer and a seller, for example, the seller may offer to sell an item at X dollars, and the buyer states that she will only buy it at less than X; thus they see a difference of interest on money, and the negotiation proceeds by offers and counteroffers on money and verbal statements designed to influence the other party and reconcile differences and achieve agreement and exchange. It can get complex quickly: There may be many people on multiple sides of a negotiation and multiple negotiation issues, and on each side, instead of an individual, there may be a group or even a larger collective such as an organization or a nation-state. In the latter cases, negotiators act as representatives of other’s interests as well as, or instead of, their own. David Lax and Jim Sebenius report that negotiation is a core element of management and the workplace and that it is a core managerial competency. The dual-concern theory is
defined as a theory of negotiation behavior that posits three fundamental strategies for moving to agreement in negotiation: *yielding* (giving in, making a concession in the direction of the other’s benefit), *contending* (holding firm, trying to get the other party to agree on your terms), and *problem solving* (working with the other party to come up with a mutually beneficial “win-win” agreement that is good for everyone). This entry provides a brief overview of the dual-concern theory and a brief explanation of its importance to management.

**Fundamentals**

The dual-concern theory predicts the occurrence of the three basic negotiation strategies from the intersection of two motivations held by the individual negotiator: (1) *concern* for one’s own outcomes (often referred to as *aspirations*) and (2) *concern* for the opposing party’s outcomes. Thus, there are two, or dual, concerns. Dean Pruitt and Steve Lewis developed the theory, building on earlier theoretical work by management scholars Robert Blake and Jane Mouton, who had a model of management called the “managerial grid” that argued the most effective management style was one where the manager cared both about the work task and the interpersonal relationships in the workplace, and on related work by Kenneth Thomas on conflict styles, which is about how individuals differ in their response to social conflict.

Rather than viewing self-concern (concern about own interests) as a constant, as did earlier approaches to understanding negotiation behavior—for example, the one developed by Morton Deutsch—the dual-concern theory views it as a dimension running from weak to strong. When this concern is strong, as when one has firm aspirations, one is willing to work hard for outcomes favorable to oneself; when it is weak, one is willing to let one’s own interests slip. Other-concern (concern about the other party’s interests) is also seen as a dimension that runs from weak to strong. Self-concern and other-concerns are regarded as independent dimensions rather than as opposite ends of the same dimension.

Most theories about negotiation assume an individualistic orientation, when negotiators care only for their own outcomes and are indifferent about the other’s outcomes. However, negotiators are often concerned about the other party’s outcomes even though this concern is usually not as strong as the concern about their own outcomes. Concern for the other party is sometimes genuine and sometimes instrumental (strategic)—for example, caring about what they want now so the other side will feel obligated to be cooperative in the future. Many of the results of negotiation research do not hold up when negotiators have concern for the other side’s outcomes.

The dual-concern theory predicts preferences among the three basic strategies of negotiation from various combinations of high and low self-concern and other-concern. High self-concern coupled with low other-concern is assumed to encourage contending, which are efforts to get the other party to agree on one’s own terms (e.g., making a threat such as “Agree to this or we go on strike”). High other-concern and low self-concern is assumed to encourage concession making. High self-concern and high other-concern is assumed to encourage problem solving (e.g., information exchange such as, “That issue is important to me; tell me, which issue is most important to you?”), and the development of creative, integrative, win-win agreements. Low self-concern and low other-concern is assumed to encourage inactivity.

The dual-concern theory posits that the most effective negotiation strategy and the best outcomes will occur when the negotiators care not only about their own outcomes but also the outcomes of the other party. The theory interprets the impact of situations and conditions on negotiation (e.g., accountability to constituents, time pressure, mood) by locating their impact on the relative strength of the two concerns, and it also posits that the conditions that encourage the use of one negotiation strategy will lessen the likelihood of the use of the other strategies. Of course, negotiation is like a machine with many moving parts, and negotiation strategies have many other antecedents in addition to these two concerns, but the dual-concern theory is one basis for making predictions about strategic preference in negotiation.

Experimental evidence for the dual-concern theory comes from studies that independently manipulated self-concern and other-concern. In an important review study, Carsten De Dreu, Laurie Weingart, and Seungwoo Kwon conducted a meta-analysis of 28 studies relevant to the dual-concern theory. The results were clear: When people had a
prosocial motive, they engaged in more problem-solving behaviors, fewer contentious behaviors, and achieved better agreements than when they had an egoistic motive; these effects were obtained only when they also had a high resistance to yielding. One criticism of the dual-concern theory is that there are many other motives that can guide behavior in negotiation. Indeed, Peter Carnevale and Carsten de Dreu have written about other motives, such as epistemic motivation, that can guide the desire to understand the issues and the problems faced in negotiation.

The theory’s central managerial insight is that managers can often achieve good negotiation outcomes if they not only care about their own interests but also consider other’s interests and seek outcomes of negotiation that maximize collective welfare. Modern organizations are more likely to succeed to the extent that managers adopt dual concerns in their negotiating and are able to encourage employees to attend not only to their own interests but to the interests of coworkers as well.

Peter J. Carnevale and Yoo Kyoung Kim

See also Conflict Handling Styles; Game Theory; Influence Tactics; Managerial Grid; Principled Negotiation; Theory of Cooperation and Competition; Trust

Further Readings


DUAL-CORE MODEL OF ORGANIZATIONAL INNOVATION

The basic premise of the dual-core model of innovation is that many organizations have two primary centers of innovation. Organizations—schools, hospitals, city governments, welfare agencies, government bureaucracies, and many business firms—are conceptualized as having two cores: a technical core and an administrative core. Each core is a center of innovation with its own employees, tasks, and domain. Innovation can be initiated and adopted in either core. The dual-core approach identifies two distinct processes associated with organizational innovation and change. The original research examined differences in innovation type—technical and administrative—and the initiation of each type of innovation within organizations. The role of organization leaders was also explored. The dual-core name arose to capture the notion of an administrative core that existed along with the technical core identified by James Thompson. Each core plays a distinct role in the innovation process, with initiatives originating at each end of the organization’s hierarchy. Administrative innovations trickle down from the administrative core at the top, and technical innovations trickle up from the technical core at the bottom. The dual innovation processes in organizations provide a plausible explanation for inconsistent research findings about the adoption of wide-ranging innovations. In this entry, the two types of innovation are defined, the different leader roles and adoption processes are examined, and the research evidence is reviewed along with organization design characteristics associated with each type of innovation.
Dual-Core Model of Organizational Innovation

Fundamentals

The adoption of innovations is important because innovation is essential for achieving improvements in long-term performance. Innovation is often defined as the adoption of an idea or behavior that is new to an organization. A technical innovation is the adoption of a new idea for a new product, service, or technical production process or service operation. Examples include software that enables greater collaboration among engineers, a new medication dispenser for patients, or developing a new smartphone. Administrative innovation pertains to organization structure, administration and control systems, and human resources and involves procedures, roles, structures, and rules directly related to management of an organization. Examples are the adoption of the balanced scorecard control system, adopting a new online system for recruiting employees, and moving to a virtual organization structure. Technical innovations usually are related to an organization’s technology, the output of which touches clients, and administrative innovations are related to the organization’s structure and management systems.

The basic dual-core idea is that innovation adoption within an organization will be driven by its respective centers or cores. Each core has its own participants, goals, problems, activities, methods, and domain. Each core is essential to total organization functioning, each taking responsibility for certain sectors of the external environment. People within each core are responsible for the awareness, initiation, and adoption of innovative ideas in their area of expertise. Two separate innovation patterns are proposed to exist in most organizations. Innovation ideas may be moving through the hierarchy in different directions, and the correct direction may increase chances for adoption. Organization members in a specific core will be most knowledgeable and aware of problems, new ideas, and the suitability of innovations in their domain. Experts in the technical aspect of the organization will tend to be those people working on or near the core technology. Upper-level managers are the experts concerning administrative arrangements and will be tuned to new developments that apply to administrative problems. Top managers see the big picture administratively and know what’s happening in the environment of similar organizations. Administrative innovations will tend to be proposed and approved near the top of the hierarchy and implemented downward, whereas technical innovations will be initiated upward for approval.

Importance

The distinction between technological and administrative innovation has been cited as one of the most meaningful dichotomies for explaining the process of innovation adoption. Most research articles on organizational innovation report surveys that correlate the number of innovation adoptions with organizational characteristics such as employee professionalism, centralization, formalization, size, and leadership. The innovation research studies that have focused specifically on the types of innovation adopted suggest two general findings. First, administrative innovations are adopted much less frequently than technical innovations. One study reported twice as many technical innovations to administrative innovations, another study reported three times as many, and a broad survey of 342 articles reported 10 times as many mentions of technical innovation as administrative innovation.

Second, the studies support the dual-core idea that technical and administrative innovations are associated with different organizational conditions and internal processes. Technical innovation is typically associated with a looser organic structure and highly professional employees, which allow initiatives to bubble upward from lower and middle levels. Organizations that frequently adopt technology innovations typically have decentralized authority structures and well-educated professional employees. Professional employees have broad networks and awareness of new technical ideas and are more likely to promote adoption. Fewer formal rules and procedures are also associated with technical innovation, presumably because fewer formal procedures encourage creative problem solving and the introduction of new ideas. The structural flexibility and dispersion of power to professional employees facilitates technical innovation.

Frequent administrative innovations, by contrast, have been found to use a top-down process and are associated with a more centralized, mechanistic structure and technical employees of a lower professional level. Organizations that successfully adopt many administrative changes typically have
large administrative ratio, are larger in size, and are centralized and formalized compared with organizations that adopt many technical changes. The reason is that administrative changes in response to government, financial, competitive, or legal sectors of the environment are implemented top-down. The administrative core can exercise more control over employees in a centralized organization. Formalization of rules and procedures also seems to facilitate administrative changes. If an organization has an organic structure and highly professional employees with freedom and autonomy, those employees may resist top-down initiatives.

The role of leadership is perhaps the most interesting variable because it has been associated with more frequent adoption of both technical and administrative innovations. In the case of administrative innovation, leaders are directly involved in the initiation and implementation of changes. Transformational leaders have the power and authority to initiate changes and could expect less resistance from a less professional workforce. For example, research into civil service reform found that the implementation of management innovation was extremely difficult in organizations that had an organic technical core. The professional employees in a decentralized agency could resist civil service changes. By contrast, leaders in organizations considered more bureaucratic and mechanistic in the sense of high formalization and centralization adopted administrative changes more readily.

In the case of technical innovation, the top leader role is to facilitate and reward the initiation of innovations from the workforce. The ideal leadership style supports an entrepreneurial spirit from below and motivates technical employees to pursue improvements that they may not have otherwise attempted in the form of new services, products, and programs. Thus, leaders who want to support technical innovation can implement a variety of mechanisms, systems, and processes that encourage a bottom-up flow of ideas and make sure the ideas are heard and acted on by top executives. For example, some corporate leaders have held competitions or innovation challenge contests on the company intranet to encourage reserved and introverted engineers to speak up with their ideas for improving the business. Employees vote on their favorites and the winner may take home a cash prize.

Other examples include leaders at companies that have established innovation forums to discuss specific issues about which new technical ideas are wanted. Google leaders famously allow engineers to spend 20% of their time on projects of their own choosing, but managers realized that many ideas from employees were getting lost because the company didn’t have processes for reviewing, prioritizing, and implementing the ideas. In response, executives established “innovation review” meetings, where managers present product ideas bubbling up from their divisions to top executives. It’s a way to force management to focus on promising ideas at an early stage and provide the resources needed to turn them into successful products and services.

Innovation adoption is important because both academics and practitioners agree that to improve performance and ensure long-term survival, organizations must change and adapt by managing the development and implementation of innovations. The research findings indeed show that innovation and performance are positively related for both administrative and technological innovation. In some organizations, the adoption of one type of innovation was more strongly correlated with performance, depending on the administrative versus technical needs. In other organizations both administrative and technical innovation were positively related to performance. For example, in a sample of 85 public libraries, administrative innovations were adopted to cope with a period of resource decline, and service innovations were adopted in a later period to respond to growing competition from book sales and cable TV.

The lesson of the dual-core theory is that an organization can be led and structured to adopt frequent administrative changes if that is in line with its mission and demands from the environment. Leaders can be expected to initiate administrative innovations implemented through a fairly mechanistic and centralized structure. On the other hand, if frequent technical innovations serve an organization’s mission, the leader’s role is to facilitate innovations from the bottom-up, and the appropriate structure is more organic and decentralized with employees who are empowered professionals. The different innovation processes based on innovation type makes it important for leaders to understand the type of
innovation to be adopted and to seek the correct fit with the organization’s design and internal innovation processes.

Richard L. Daft

See also Patterns of Innovation; Process Theories of Change; Stages of Innovation

Further Readings


**Dynamic Capabilities**

Dynamic capabilities are the firm’s ability to integrate, build, and reconfigure internal and external resources to address and shape rapidly changing business environments. Since its emergence in the 1990s, the dynamic capabilities framework has attracted a great deal of scholarly interest as a potentially overarching construct for the field of strategic management. The dynamic capabilities framework posits that firms are, to varying degrees, able to adapt to (or even initiate) changes in their environment. The strength of a firm’s dynamic capabilities determines the speed and degree to which the firm’s idiosyncratic resources and competences can be aligned and realigned to match the opportunities and requirements of the business environment. Strong dynamic capabilities are the basis for the sustained competitive advantage displayed by a handful of firms that have endured for decades even as they have shifted the focus of their activities. Dynamic capabilities contain an important element of creative managerial and entrepreneurial activity (e.g., pioneering new markets) by the top management team and other expert talent. They are also, however, rooted in organizational routines (e.g., product development along a known trajectory) and analysis (e.g., of investment choices). These two facets of dynamic capabilities often work together. At Apple, for example, product development follows an established process but in a way that encourages creative input through, for example, an ad hoc meeting to explore a new idea. Keeping hybrid processes such as this from going off-track is in itself a dynamic capability, rooted in the organization’s values and systems. The dynamic capabilities concept provides one of the most comprehensive accounts of what leading firms do to maintain competitive advantage. This entry begins by contrasting ordinary and dynamic capabilities. It presents the intellectual roots of the dynamic capabilities framework and a taxonomy of dynamic capabilities. It concludes with a statement of the central role of dynamic capabilities for dynamically formulating and executing strategies as competitive conditions evolve.

**Fundamentals**

**Ordinary Capabilities**

It is perhaps easier to understand what dynamic capabilities are by describing other capabilities that are not dynamic. These ordinary capabilities permit sufficiency (and sometimes excellence) in the performance of a delineated task. They generally fall into three categories: administration, operations, and governance. Ordinary capabilities (also known as competences) become embedded in (a) skilled
Dynamic Capabilities

personnel, including, under certain circumstances, independent contractors; (b) facilities and equipment; and (c) processes and routines, including any supporting technical manuals and the administrative coordination needed to get the job done. Many capabilities can be measured against specific task requirements, such as new product introductions, and benchmarked internally or externally to industry best practice.

A firm’s ordinary capabilities enable the production and sale of a defined (but static) set of products and services. But the presence of ordinary capabilities says nothing about whether the current production schedule is the right (or even a profitable) thing to do. The nature of competences, and their underlying processes, is that they are not meant to change (until they have to). The change process is a key part of the exercise of dynamic capabilities. Dynamic capabilities determine whether the enterprise is currently making the right products and addressing the right market segment, and whether its future plans are appropriately matched to consumer needs and technological and competitive opportunities.

Precursors

The intellectual origins of the dynamic capabilities framework can be traced to Joseph Schumpeter and to economic and business historians such as Alfred Chandler and Nathan Rosenberg (for his work on complementary technologies), to Richard Nelson and Sidney Winter (for their work on national systems of innovation and the nature of knowledge), to Oliver Williamson (for his exegesis of asset specificity), and to Edith Penrose (for her work on the sources of growth of the firm). Other intellectual antecedents include (but are by no means limited to) W. A. Abernathy and James M. Utterback (innovation life cycles), Giovanni Dosi (technological change), Israel Kirzner (entrepreneurialism), James March and Herbert Simon (organizational behavior and decision making), Richard Rumelt (isolating mechanisms), and M. L. Tushman (competency enhancing and competency destroying innovation). Behavioral economists such as Daniel Kahneman and Amos Tversky have also provided key insights.

The dynamic capabilities framework builds on that of the resource-based view of the firm. Resources are firm-specific, mostly intangible, assets that are difficult, if not impossible, to imitate. Examples include intellectual property, process know-how, customer relationships, and the knowledge possessed by groups of especially skilled employees. They are typically not considered at all in the accounting view of the firm displayed on its balance sheet, except perhaps in a line item for “Goodwill” related to an acquired firm. Resources—particularly intellectual capital—are idiosyncratic in nature and are difficult to trade because their property rights are likely to have fuzzy boundaries and their value is context-dependent. As a result, there is no well-developed market for most types of resources and intellectual capital; in fact, they are typically not traded at all. They are also often quite difficult to transfer among firms simply from a management (let alone transactions) perspective. Competences, the ordinary capabilities described earlier, are a particular kind of organizational resource. The essence of competences (and of all types of capabilities) is that they cannot generally be bought (apart from acquiring the entire organization); they must be built. Valuable differentiating competences may include how decisions are made, how customer needs are assessed, and how quality is maintained.

The resource-based view was an important intellectual leap beyond the prevailing economic view that strategic success is obtained by efficiency and the creation of barriers to entry. The resources approach accorded well with the sense of many practitioners, especially in high-tech industries, that sustainable success came with the laborious accumulation of technological assets and human resources, not from clever strategic positioning. But the approach failed to pursue the questions of how firms develop or acquire new competences and adapt when circumstances change. The dynamic capabilities approach deals primarily with such questions.

Dynamic Capabilities

Dynamic capabilities enable an enterprise to profitably orchestrate its resources, competences, and other assets. They allow the organization (especially its top management) to develop conjectures about the evolution of markets and technology, validate them, and realign assets and competences to meet new requirements. Dynamic capabilities are also used to assess when and how the enterprise is to ally with other enterprises. The expansion of trade has enabled (and requires) greater global specialization.
To make the global system of vertical specialization and co-specialization (bilateral dependence) work, there is a need for firms to develop and align assets within a global value chain so as to develop and deliver a joint “solution” that customers value.

Not infrequently, an innovating firm will be forced to create a market, such as when an entirely new type of product is offered to customers or when new intermediate products are to be traded for the first time. Dynamic capabilities, particularly the more entrepreneurial competences, are a critical input to the market creating (and co-creating) process. The potential changes envisioned in the dynamic capabilities framework go beyond the notion of “fit” seen as optimal in the “adaptation” school of organizational change research, which holds the environment to be exogenous.

Although dynamic capabilities is a framework rather than a full-fledged model, at least some of its assertions and implications are empirically testable. The project of empirical validation is still in its early stages. Careful studies of the successes and failures of specific enterprises have provided a great deal of support already. Supportive statistical evidence includes data showing sustained heterogeneity in firm performance, because dynamic capabilities can support superior long-term returns for some—but not all—companies. Most studies do, in fact, find that differences in profitability persist over time.

**Taxonomy of Dynamic Capabilities**

Dynamic capabilities can usefully be thought of as comprising three primary clusters of competences: (1) identification and assessment of an opportunity (sensing), (2) mobilization of resources to address an opportunity and to capture value from doing so (seizing), and (3) continued renewal (transforming). Sensing, seizing, and transforming are essential if the firm is to sustain itself as markets and technologies change.

Sensing is an inherently entrepreneurial set of competences that involves exploring technological opportunities, probing markets, and listening to customers, along with scanning the other elements of the business ecosystem. It requires management to build and “test” hypotheses about market and technological evolution, including the recognition of “latent” demand. The world wasn’t clamoring for a coffeehouse on every corner, but Starbucks, under the guidance of Howard Schultz, recognized and successfully exploited the potential market. As this example implies, sensing requires managerial insight and vision—or an analytical process that can serve as a proxy for it.

Seizing capabilities include the design of business models to satisfy customers and capture value. They also include securing access to capital and the necessary human resources. Employee motivation is vital. Good incentive design is a necessary but not sufficient condition for superior performance in this area. Strong relationships must also be forged externally with suppliers, complementors, and customers.

Transforming capabilities that realign the enterprise’s resources are needed most obviously when radical new opportunities are to be addressed. But they are also needed periodically to soften the rigidities that develop over time from asset accumulation, standard operating procedures, and insider misappropriation of rent streams. A firm’s assets must also be kept in strategic alignment vis-à-vis its ecosystem. Complementarities need to be constantly managed (reconfigured as necessary) to achieve evolutionary fitness, limiting loss of value in the event that market leverage shifts to favor external complements.

The whole notion of management-led transfiguration of the enterprise contradicts the “organizational ecology” school of strategic management research. The ecology approach holds that, as environments shift, incumbent firms face overwhelming inertia and are, as a result, replaced by organizations better suited to the changed context. Although there is considerable empirical evidence of organizational inertia, the dynamic capabilities framework holds that management can overcome evolutionary forces to some degree and the changes that have occurred in the course of the histories of numerous leading corporations, such as IBM and Apple, which suggests that this is true in practice.

**Importance**

The dynamic capabilities framework is still evolving and has not yet been rigorously tested. Numerous case studies have confirmed the importance of dynamic capabilities in specific instances. There is also a small but growing number of studies that have operationalized various aspects of dynamic capabilities for statistical tests, and these have generally confirmed the importance of specific capabilities for higher firm performance.
Dynamic capabilities provide a basis for competitive advantage because they are embedded in the organization and hard for rivals to imitate. Nontradable assets such as these can provide a solid basis for building long-term profitability. Assets and services traded in a market can be accessed by rivals, which limits the ability to rely on them as a source of competitive advantage. The Internet and other recent innovations have vastly expanded the number and type of goods and services available from efficient, low-cost providers.

Knowledge assets and, more generally, resources, as defined above, remain especially difficult—although not impossible—to trade. In the rare instances when one is able to obtain a resource through purchase, it may be bought for far less than its strategic worth to the buyer because the seller lacks the necessary complements (or vision) to realize the full potential value.

The dynamic capabilities framework encompasses the ability of an enterprise to create, maintain, and manage idiosyncratic, value-supporting intangibles. The framework shows how such assets must be used within a business model for providing value to customers and ensuring the appropriability of some of that value for the firm. The ability to dynamically formulate and execute strategy as conditions evolve is the essential requirement for durable enterprise growth and profitability.

The study of dynamic capabilities teaches the need to look beyond ensuring that a business runs smoothly. Managers at all levels must also be looking around and ahead to detect and respond to opportunities and threats. Strong dynamic capabilities allow an organization or business unit not only to do things right but also to do the right things to stay or become competitive.

David J. Teece

See also Competitive Advantage; Firm Growth; Hypercompetition; Knowledge-Based View of the Firm; Resource-Based View of the Firm; Strategic Alliances; Strategic Entrepreneurship

Further Readings


EMOTIONAL AND SOCIAL INTELLIGENCE

Beneath the many definitions, measures, and concepts, emotional and social intelligence (ESI) is the intelligent use of one’s emotions. Neurological research has confirmed that it is difficult to have cognitions that are not using ESI because thoughts are either driven by emotional arousal or in part connected to emotional centers of the brain. A more precise definition of ESI is that it is a set of thoughts, feelings, and behavior driven by a neural circuitry emanating from the limbic system. When Peter Salovey and John D. Mayer first introduced emotional intelligence (EI) into the professional literature, they defined it as a set of abilities in awareness of and handling of your emotions. ESI is crucial as a set of underlying abilities that enable a person to effectively manage and lead others. They are the most direct characteristics of an individual that lead to or cause effectiveness. As such, they are highly relevant to the identification, selection, promotion, succession planning, career path, training, and development of managers. They highlight characteristics and behavior that should be incented and rewarded by the human resource management systems. This entry is an explanation of the concept and how it has evolved and highlights some of the major applications for improvement of management performance.

Fundamentals

An integrated concept of emotional, social, and cognitive intelligence as abilities, self-perception, and the behavioral level of competencies offers a theoretical structure for ESI and links it to a theory of action and job performance. That is, a person’s ESI enables him or her to address job demands, functional needs, and role requirements in order to be effective. It enables the person to do these consistent with the internal and external organizational environment. In this sense, ESI is based on a contingency theory of managerial and leadership effectiveness.

Conflict about the definition and theoretical basis of ESI, as well as conflicting operational definitions emerging in various forms of measurement, has plagued the concept and muddied the waters of its potential application in organizations. If defined as a single construct, the tendency to believe that more effective people have the vital ingredient for success invites the attribution of a halo effect. For example, person A is effective, therefore, she has all of the right stuff, such as brains, savvy, and style. The challenge is finding the best “focal point” with which to look at ESI and performance.

The articulation of one overall emotional or social intelligence might be deceptive and suggest a close association with cognitive capability (i.e., traditionally defined “intelligence” or what psychologists often call “g,” referring to general cognitive ability. The latter would not only be confusing but additionally would raise the question as to what one is calling
emotional and social intelligence and whether it is nothing more than an element of previously defined intelligence, cognitive ability, or personality traits.

A wide variety of publications have linked trait ESI to cognitive intelligence and various forms of performance in academic settings and a few in work settings, using measures such as the Mayer Salovey Caruso Emotional Intelligence Test (MSCEIT). Similarly, a large number of publications have linked self-perception aspects of ESI to personality and performance in academic and work settings, using measures, such as the Emotional Quotient Inventory (EQ-I), Trait Emotional Intelligence Questionnaire (TESIQue), or Wong-Law measure (WLESIS). Special issues of the Journal of Management Development in 2008 and 2009, as well as a special issue of the Journal of Cross-Cultural Management in 2012, have been devoted to studies showing the link between the behavioral level of ESI (i.e., competencies) and work performance in a wide variety of jobs, sectors, and countries, using measures, such as the Emotional and Social Competency Inventory (ESCI) or coding of behavioral event interviews.

Although data from studies comparing these tests are underway, conceptually we would expect small correlations between these various measures. The MSCEST assesses a person’s direct handling of emotions, while the ESCI, which is intended to assess the ESI competencies described earlier, assesses how the person expresses his or her handling of emotions in life and work settings.

Mayer, Salovey, David Caruso, Séphan Côté, Reuven Bar-On, Richard Boyatzis, and their colleagues have shown in various studies that ESI contributes unique variance to criterion measures beyond measures of generalized intelligence and personality.

Although not universally accepted, a number of the primary researchers in ESI contend that the underlying personality theory explains ESI as occurring at multiple levels, such as (a) neural circuits and endocrine (i.e., hormonal) processes, (b) unconscious dispositions called motives and traits, (c) self-image or self-perception, and (c) observed competencies or competency clusters.

The components of ESI as assessed by the three most used measures are the following:

**MSCEIT:** (a) perceiving emotions: faces, pictures; (b) facilitating thought: facilitation, sensations;

(c) understanding emotions: changes, blends; and
(d) managing emotions: emotion management, emotional relations;

**EQ-I:** (a) intrapersonal: self-regard, emotional self-awareness, assertiveness, independence, self-actualization; (b) interpersonal: empathy, social responsibility, interpersonal relationships; (c) stress management: stress tolerance, impulse control; (d) adaptability: reality testing, flexibility, problem solving; (e) general mood: optimism, happiness; (f) positive impression; and (g) Inconsistency Index;

**ESCI:** (a) self-awareness: emotional self-awareness; (b) self-management: adaptability, emotional self-control, achievement orientation, positive outlook; (c) social awareness: empathy, organizational awareness; (d) relationship management: inspirational leadership, influence, conflict management, teamwork, coaching and mentoring; and for the university version, two cognitive competencies are added: systems thinking and pattern recognition.

This conceptualization of ESI requires a more holistic perspective than is often taken. When integrating the physiological level with the psychological and behavioral levels, a more comprehensive view of the human emerges.

**Evolution**

While Edward L. Thorndike and other early psychologists explored an ESI-related concept of “social intelligence” (SI) in the 1920s and 1930s, recent psychologists have appreciated SI’s complexity and described it in terms of multiples. Howard Gardner conceptualized this as two of the seven intelligences: intrapersonal and interpersonal. Robert Sternberg called it “practical intelligence” and later “successful intelligence.”

The concept of EI was launched onto the world scene by the best seller, *Emotional Intelligence*, by Daniel Goleman in 1995. Peter Salovey and Jack Mayer are credited with first introducing the phrase in a professional journal in 1990. At the same time, others like Reuven Bar-On, were studying these concepts. Although there are differences among the theories and models, these distinctions have more to do with the measurement of ESI with the three most popular instruments, such as the MSCEST (developed by John Mayer, Peter Salovey, and David Caruso), EQ-I (developed by Reuven
Bar-On), and ESCI (developed by Richard Boyatzis and Daniel Goleman), than the underlying theory. Controversy in the field has emerged as to whether there is one concept called ESI, whether it should be called an “intelligence,” and how best to measure it. Regardless, the concept of ESI has allowed scholars to create a holistic personality theory, including neuroendocrine processes. It has also provided a label that makes it easy for many to classify the noncognitive characteristics.

Advocates of trait-level approaches often contend that ESI should be seen as a form of intelligence, and as such, it should be associated with traditional intelligence measures. Critics claim that it would not add enough distinctiveness to warrant such elaborate additional measures or even the need for an additional concept.

Professionals advocating self-perception approaches claim it is an internal characteristic, or set of characteristics. Since the characteristics are internal, they are best assessed, the proponents of this perspective claim, by asking persons to assess themselves.

Behavioral approaches or levels of ESI are typically called competencies. The “external,” direct consequence to actions in life and work establishes the competencies as forms of intelligence, whether cognitive or emotional. This approach is based on David McClelland’s concept of competency. Building on McClelland’s 1951 personality theory, Boyatzis offered, in 1982, a scheme as an integrated system with concentric circles. The person’s unconscious motives and trait dispositions are shown at the center. These affected, and were affected by, the next expanding circle of the person’s values and self-image. The surrounding circle was labeled the skill level. The circle surrounding it included observed, specific behaviors.

The concept of competency-based human resources has gone from a new technique to a common practice in the four decades since McClelland first proposed them as a critical distinction in performance. A competency is defined as a capability or ability. It is a set of related but different sets of behavior organized around an underlying construct called the “intent.” The behaviors are alternate manifestations of the intent, as appropriate in various situations or times. Competencies require action (i.e., a set of alternate behaviors varying according to the situation) and intent. Boyatzis defined a competency in 1982 as an “underlying characteristic of the person that leads to or causes effective or superior performance.” In this approach, an emotional intelligence competency is an ability to recognize, understand, and use emotional information about oneself that leads to or causes effective or superior performance. Meanwhile, a social intelligence competency is the ability to recognize, understand, and use emotional information about others that leads to or causes effective or superior performance. A cognitive intelligence competency is an ability to think or analyze information and situations that leads to or causes effective or superior performance.

To identify, define, and clarify competencies, an inductive method is typically used. To determine distinctive competencies, a sample of outstanding or superior performers is identified. Then, a sample of “average” or “poor” performers is also identified. Research published over the last 30 years or so shows us that outstanding leaders, managers, advanced professionals, and people in key jobs, from sales to bank tellers, appear to require three clusters of behavioral habits as threshold abilities and three clusters of competencies as distinguishing outstanding performance. The threshold clusters of competencies include (a) expertise and experience; (b) knowledge (i.e., declarative, procedural, functional, and metacognitive); and (c) an assortment of basic cognitive competencies, such as memory and deductive reasoning.

The distinctive competencies are (a) cognitive competencies, such as systems thinking and pattern recognition; (b) emotional intelligence competencies, including self-awareness and self-management competencies, such as emotional self-awareness and emotional self-control; (c) social intelligence competencies, including social awareness and relationship-management competencies, such as empathy and teamwork.

Recent research in the neurosciences is supporting the observation that neural networks involved in one’s emotional self-control and internal reflections are associated with the “executive function.” In functional magnetic resonance imaging (fMRI) studies, Professor Tony Jack and his colleagues have shown that when people are engaged in dealing with social situations, a different network is activated, and it is quite similar to the default mode network. The emerging evidence that these two neural circuits are somewhat different suggests further support that
emotional intelligence and social intelligence are two different concepts. This difference is supported by endocrine studies.

A major advancement in understanding the effect of competencies on performance came from catastrophe theory, which is now considered a subset of complexity theory. Instead of asking only the typical question, Which competencies are needed or necessary for outstanding performance? David McClelland, in a paper published posthumously in 1998, posed the question, How often do you need to show a competency to “tip” you into outstanding performance? In other words, how frequently should a competency be shown to be sufficient for maximum performance? Using this method, Boyatzis reported significant findings regarding tipping points in an international consulting firm. The profits from accounts of senior partners were analyzed for seven quarters following assessment of their competencies. Senior partners using ESI competencies above the tipping point more than doubled the operating profits from their accounts as compared to the senior partners below the tipping point. The measure of competencies was the average perceived frequency of use of each competency by others around the senior partner, using a 360-degree competency questionnaire. He showed that this method of diagnosing effectiveness was superior to other, more typical methods.

### Importance

One of the benefits of the multilevel approach to ESI assessment or competency is that it allows more possibilities of how ESI can be developed in adulthood. The most dramatic results have been shown with the behavioral level of ESI. Under the leadership of Professor Cary Cherniss and Daniel Goleman, the Consortium for Research on Emotional Intelligence in Organizations in a global search of the literature identified only 15 programs that improved emotional intelligence. They showed impact on job outcomes, such as number of new businesses started, or life outcomes, such as finding a job or satisfaction. The few published studies examining improvement of more than one of these competencies show an overall improvement of about 10% in emotional intelligence abilities 3 to 18 months following. The results appear no better from master of business administration (MBA) programs where there is no attempt to enhance emotional intelligence, as shown in research projects by the American Assembly of Collegiate Schools of Business. They reported that behavior levels of graduating students from two highly ranked business schools, compared to their levels when they began their MBA, showed improvements of only 2% in the skills of emotional intelligence. In fact, when students from four other high-ranking MBA programs were assessed on a range of tests and direct behavioral measures, they showed a gain of 4% in self-awareness and self-management abilities but a decrease of 3% in social awareness and relationship management.

A series of longitudinal studies underway at the Weatherhead School of Management of Case Western Reserve University have shown that people can change their complex set of emotional and social intelligence competencies. Richard Boyatzis, Elizabeth Stubbbs, and Scott Taylor showed behavioral improvements of 60% to 70% during the 1 to 2 years of the full-time MBA program, 55% to 65% improvement during the 3 to 5 years of the part-time MBA program, and then leveling off at about 50% improvement 5 to 7 years after entry into the part-time MBA program.

In a longitudinal study of four classes completing the Professional Fellows Program (i.e., an executive education program at the Weatherhead School of Management), Ronald Ballou, David Bowers, Richard Boyatzis, and David Kolb showed that these 45- to 55-year-old professionals and executives improved on 67% of the emotional intelligence competencies assessed in this study.

These longitudinal studies are showing that the belief that many of these characteristics cannot be developed (i.e., you have to be born with them) is a result of inappropriate or ineffective development methods.

Because of the consistent validation results from studies of ESI, it is believed that these measures can be used in human resource management and development systems in organizations and in education for development. People can benefit from assessment and feedback on their ESI, and from the behavioral approach, how others see their ESI behavior. It is suggested from some studies, that the use of trained coaches to help a person interpret such feedback and put it to work in improving their performance can help both individuals and their organizations.

Richard E. Boyatzis
See also Achievement Motivation Theory; Complexity Theory and Organizations; Contingency Theory; Cultural Intelligence; Leadership Practices

Further Readings

EMPOWERMENT

Empowerment is a popular term that has been used loosely in the business vernacular across different contexts to address a wide variety of issues, resulting in multiple meanings being attributed to it. In the management literature, psychological empowerment focuses on the experience of being empowered and is seen, as per a 1988 article by Conger and Kanungo, as “a process of enhancing feelings of self-efficacy among organizational members through the identification of conditions that foster powerlessness and through their removal by formal organizational and informal techniques of providing efficacy information” (p. 474). Empowerment has subsequently been described by Gary Yukl in a 2006 review as “how the intrinsic motivation and self-efficacy of people are influenced by leadership behavior, job characteristics, organization structure, and their own needs and values” (p. 107). Empowerment is relevant as when workers feel empowered, their personal efficacy expectations are strengthened through developing a “can do” attitude which can be used to socially construct their own reality. This empowerment entry will initially present the fundamentals of empowerment, followed by the evolution of empowerment, its importance, and practical implications and applications.

Fundamentals

Researchers have argued that psychological empowerment is multifaceted and defined as increased intrinsic task motivation manifested in a set of four cognitions reflecting an individual’s orientation to his or her work role. The four cognitions, or dimensions, of psychological empowerment are meaning, competence, self-determination, and impact.

Meaning is the value of a work goal or purpose, judged in relation to an individual’s own ideals or standards. Meaning involves the perception that a task or activity is of value to oneself. Meaning is also seen as the fit between the requirements of the job tasks and one’s own values, beliefs, and behaviors. Meaning is seen as the “engine” of empowerment as it energizes individuals to work.

Competence, or self-efficacy, is an individual’s belief in his or her capability to perform work activities with skill. Competence is analogous to agency beliefs, personal mastery, or effort-performance expectancy. Competence also captures the feeling that one is capable of successfully performing a particular task or activity.

Self-determination is an individual’s sense of having a choice of initiating and regulating actions over one’s own work. This dimension reflects the sense of personal control or influence over one’s immediate work situation and autonomy in the initiation and continuation of work behaviors and processes. Self-determination is also referred to as choice which involves “causal responsibility for a person’s actions.” The degree of choice in the work setting has been described as the crux of empowerment.

Impact is the degree to which an individual can influence strategic, administrative, or operating outcomes at work. Impact is also the belief that one has an influence on organizational-level
decisions or policy making, as well as the degree to which individuals perceive that their behavior makes a difference.

Gretchen M. Spreitzer developed a psychological empowerment model based on Kenneth W. Thomas and Betty A. Velthouse’s theoretical work, encompassing the meaning, competence, self-determination, and impact dimensions. Spreitzer’s model has enjoyed much use in subsequent empirical studies, with several researchers validating Spreitzer’s model. However, two research teams proposed that the key dimensions of self-determination and competence, respectively, may not contribute to the understanding of individual empowerment. Additionally, it has been proposed that a three-dimensional model of psychological empowerment—which includes perceived competence, perceived control, and goal internalization—captures an important, overlooked aspect of empowerment, goal internalization, and may be as effective as Spreitzer’s four-dimensional model. Finally, concerns have been expressed by one research team about Spreitzer’s use of the same data set for all subsequent, related studies.

While there is some disagreement on operationalization of the individual psychological empowerment construct, the four main empowerment dimensions—meaningfulness, competence, self-determination, and impact—have dominated the literature in recent studies.

Antecedents of Empowerment

Antecedents and consequences aid in developing the nomological network of constructs. Antecedents of empowerment can be classified into six categories—individual traits, the task environment, the social structural context, the organizational environment, structural mechanisms, and leadership strategies.

The work context—task environment, social structural context, and organizational environment—has received the most attention and is hypothesized to influence an individual’s and a group’s sense of empowerment. Task interdependence, responsibility, and core job dimensions (i.e., task identity, autonomy, and feedback) have been seen as task environment characteristics that enable empowerment. Five work-unit social structural characteristics—low role ambiguity, working for a boss who has a wide span of control, sociopolitical support, access to information, and a participative unit climate—have been consistently found to create a work context facilitating empowerment. Additionally, work units that provide sociopolitical support (i.e., the endorsement, approval, and legitimacy obtained from various constituencies in organizational political networks) and access to information and resources have been shown to enhance team empowerment. Finally, forms of the organization’s structure (i.e., opportunity role structure and social structure) have been proposed as empowerment antecedents.

Individuals’ traits and conscious behavior have also been viewed as facilitating empowerment. Locus of control and self-efficacy or -esteem were the two individual traits most often seen as empowerment antecedents by researchers. Leader behaviors (e.g., leader–member exchange, rewards, and leadership strategies) have also been seen as precursors to empowerment.

Partial Nomological Network for Empowerment

Managers often face the task of changing employees’ attitudes because existing attitudes hinder performance. Although attitudes are often resistant to change, the attitudes can be influenced indirectly through education and training experiences or leadership strategies (i.e., antecedents to empowerment) that change underlying beliefs. The implication is that managers achieve effectiveness and innovation (i.e., consequences of empowerment) by developing generally favorable work attitudes toward the organization and the job (e.g., job satisfaction, organizational commitment, job involvement, and empowerment) in their employees.

While considerable strides have been made toward establishing a common ground across academic and practitioner perspectives on empowerment, there is still work to be done as shown in the diverse approaches to empowerment. The job attitudes’ framework provides a useful framework for examining the various approaches to empowerment.

Attitudes represent the cluster of beliefs, assessed feelings, and behavioral intentions individuals hold toward an object. An attitude is a positive or negative feeling or mental state of readiness, learned and organized through experience, that exerts specific
Empowerment

influence on a person’s response to people, objects, and situations. An attitude, then, is defined as a learned predisposition to respond in a consistently favorable or unfavorable manner with respect to a given object.

Milton J. Rosenberg proposed a structural theory of attitudes that assumes that people have structured attitudes composed of various affective and cognitive components. Attitudes are seen as having three components: affect, cognition, and behavioral intent. Affect is the feeling component of an attitude and contains the feelings one has about a given object or situation. Affect is similar to emotion as it is something over which one has little or no conscious control. The cognitive component of an attitude consists of a person’s perceptions, opinions, and beliefs about an object or situation. Cognitions suggest thought processes, especially rationality and logic based on a person’s evaluative perceptions of reality. The behavioral component of attitudes refers to a person’s intentions or how one expects to act toward someone or something. An intention is a component of an attitude that guides a person’s behavior.

The theory of planned behavior builds on the structural theory of attitudes and includes three components: the attitude toward the behavior, a subjective norm, and the degree of perceived behavior control. The attitude toward the behavior refers to the degree to which a person has a favorable or unfavorable evaluation or appraisal of the behavior in question. The subjective-norm social factor proposes a perceived social pressure to perform or not to perform the behavior. The third antecedent of intention, the degree of perceived behavior control, encompasses the perceived ease or difficulty of performing the behavior and reflects past experience as well as anticipated impediments and obstacles. Finally, the various attitude components’ interrelatedness means that a change in one precipitates a change in the others.

The behavioral intention model suggests that managers need to appreciate the dynamic relationships between attitudes, subjective norms, and behavioral intentions when attempting to foster productive behavior or employee attitudes (e.g., empowerment). An organization may use leadership strategies (e.g., manipulate structural mechanisms, such as the hierarchical authority, resource control, and network centrality) to attempt to set goals to increase the productivity and success of the organization. Additionally, employees may feel that the organization’s goals are valued (i.e., transformational empowerment) and thus have favorable attitudes toward becoming more energized in their jobs. Their perceived subjective norm might be favorable as they see their coworkers motivated to work hard for the organization (i.e., motivational empowerment approach). Regarding perceived behavior control, employees are completely in charge of thinking about how empowered they will feel in their current work situation (i.e., psychological empowerment) and, hence, in their behavioral work-outcome intentions.

**Evolution**

There are three major approaches to empowerment which have coevolved—structural, relational, or social exchange; leadership; and motivational perspectives. Despite the diverse approaches to empowerment, psychological empowerment, namely, highlighting empowerment’s motivational implications, has emerged as a fundamental way to encompass an individual’s personal experience of the various empowerment approaches.

**Structural, relational, or social exchange approach.**

The structural approach focuses on the transfer of power and decision-making authority to lower level organizational members. This approach is used in the largest body of work on empowerment—primarily in the community psychology, social work, and mental health literatures—and is also known as the relational perspective. Power in organizations is the ability to influence organizational outcomes. One-way power can be transferred is through manipulation of structural mechanisms (e.g., hierarchical authority, resource control, and network centrality). This approach implies that organizational actors who have power are more likely to achieve their desired outcomes, while actors who lack power are more likely to have their desired outcomes thwarted or redirected by those with power.

Considered in terms of this perspective, empowerment becomes the process by which a leader or manager shares his or her power with subordinates, such that the emphasis is primarily on the notion of sharing authority. According to the social exchange perspective, as superiors differentiate among
subordinates (i.e., in-group and out-group members), they tend to utilize leadership techniques with in-group members and supervision techniques with out-group members. This perspective also focuses on how the sharing of power within an organization is affected by the structures and cultures of the organization and thus emphasizes how the organizational structure should be designed to facilitate the empowerment of its members.

**Leadership approach.** The leadership approach concentrates on the leadership practices that energize followers to strive toward organizational objectives. When leaders present an exciting organizational vision or a valued goal, leaders invigorate the followers and hence empower them. When subordinates are inspired, the subordinates may be empowered to participate in the organizational transformation process.

The transformational approach, an extension of the leadership approach, captures the psychological effects of empowerment practices (e.g., enhanced efficacy, delegation, and the energizing power of valued goals). Shared vision—consisting of the clarity of organizational expectations, employees feeling responsible to achieve goals, knowing the customer, and feeling responsible to deliver results to the customer—has been seen as an important dimension of empowerment. Empowerment in this perspective is viewed as a cognitive state which is characterized by (a) perceived control, (b) perceived competence, and (c) goal internalization. Perceived control encompasses attitudes about authority, autonomy, and decision-making latitude, while perceived competence embraces feelings of self-efficacy from role mastery. Goal internalization is an indicator of identification with organization goals and captures the energizing aspect of a worthy organizational vision as apparent in transformational, charismatic, and inspiration leadership theories.

**Motivational approach.** The third approach to the study of empowerment, primarily in the management literature, focuses on empowerment as a motivational construct. This perspective views power as having its base within an actor’s motivational disposition. Managerial techniques that strengthen an employee’s self-determination need or self-efficacy belief will make that employee feel more powerful, while strategies that weaken an employee’s self-determination need or self-efficacy will increase the employee’s feelings of powerlessness. Hence, empowerment, in this motivational sense, refers to an intrinsic need for self-determination or a belief in personal self-efficacy. It is important to note that self-efficacy in the motivational approach shares common ground with self-efficacy in the leadership approach’s transformational empowerment. However, self-efficacy in transformational empowerment is developed through competence or role mastery, while self-efficacy in the motivational approach is enhanced through self-determination.

Thomas and Velthouse proposed a multifaceted, cognitive model of empowerment, and defined empowerment as intrinsic task motivation resulting from a set of four task-related cognitions or task assessments or situational assessments pertaining to an individual’s work role. The cognitions include meaning (the value of a work goal), competence (similar to self-efficacy), self-determination (choice in initiating and regulating actions), and impact (influence over strategic, administrative, or operating outcomes).

Psychological empowerment, an extension of the motivational approach, focuses on the experience of being empowered and is seen as a process that enhances feelings of self-efficacy among organizational members. Primary vehicles for this include (a) the identification of conditions that foster powerlessness and (b) the removal of these conditions by formal organizational and informal techniques of providing efficacy information. When individuals feel empowered, their personal efficacy expectations are strengthened through developing a “can do” attitude. Inherent in the psychological empowerment notion is the insight that reality is socially constructed. Thus, it is workers’ personal interpretations of management job-redesign efforts or intentions that matter most.

**Importance**

The emphasis on psychological empowerment’s four elements—meaning, competence, self-determination, and impact—links it to earlier theory on work motivation, job design, participative leadership, and employee involvement. In general, more empowerment will be felt when the content and consequences of the work are consistent with a person’s values, the person has the capability to determine how and
when the work is done, the person has high confidence about being able to do it effectively, and the person believes it is possible to influence important events and outcomes.

While empowerment can be particularly important for organizations operating in a team environment, there has been little scholarly attention given to group empowerment. Work by Bradley L. Kirkman and Benson Rosen; Spreitzer; and Deborah Noble, Aneil K. Mishra, and William N. Cooke are notable exceptions. A four-dimensional, team-level model has been proposed which includes group perceptions of the meaningfulness, potency, autonomy, and consequences dimensions, paralleling the individual empowerment dimensions of meaning, competence, self-determination, and impact.

Individuals who find the tasks they perform meaningful, or consistent with their beliefs, attitudes, and behaviors, are more likely to feel empowered. Group meaningfulness differs from individual meaningfulness in that beliefs are shared among team members regarding the work; thus, group meaningfulness is a collective belief. Group meaningfulness is seen as a part of the nature of the task necessary for team success and is achieved when the following conditions are met: (a) The group uses a variety of skills, (b) the group’s task is a whole piece of work with visible outcomes, and (c) the group receives regular, trustworthy feedback. Without this sense of meaningfulness, when a group’s work is routine and unchallenging, of limited importance, and essentially preprogrammed with no opportunity for input or feedback, members are likely to develop negative norms and their performance is likely to deteriorate.

The individual empowerment constructs of competence and self-efficacy are similar to the group potency construct. Potency is defined as the collective belief of a group that it can be effective. Potency cannot be measured by summing individual responses to a measure of self-efficacy. Rather, potency concerns group performance, is a belief shared by group members, and is a generalized belief of effectiveness that is more relevant to the complex and widely varied tasks that groups often perform in organizations.

If an individual feels a sense of choice in initiating and regulating his or her own actions, that individual is more likely to feel empowered. At the team level, team autonomy has been defined as the degree to which a job provides substantial freedom, independence, and discretion to the team in scheduling the work and determining the procedures to be used in carrying it out. Team autonomy differs from the individual notion of choice as important decisions are made and executed by the group, not the individual, such that autonomy is experienced as a group phenomenon.

The belief that an individual has an impact on his or her job and organization can be viewed at the group level. Decisions made by the team can affect team member jobs, other teams, and internal and external organization customers, and team members share this knowledge of impact with other team members. To the extent that teams are able to ascertain their level of impact (i.e., the team knows that its tasks have significant consequences for other people), the team can also self-assess its level of empowerment.

Modern managers’ efforts to increase employee empowerment often involve organizational programs rather than just an individual leader’s actions with direct subordinates. A variety of different empowerment programs have been used, including self-managed teams, democratic structures and processes, and employee ownership of the company. Additional empowerment programs for organizations include selection of leaders for limited terms, active participation in assessing leader performance, implementing formal procedures for making important decisions to give members significant influence over decisions, sharing of leadership responsibilities by members of a small organization, and providing access to accurate information about business performance, plans, goals, and strategies.

Kathleen J. Barnes

See also Decision-Making Styles; High-Performing Teams; Organizational Effectiveness; Participative Model of Decision Making; Social Construction Theory; Substitutes for Leadership; Work Team Effectiveness

Further Readings


## Engaged Scholarship Model

Engaged scholarship refers to the interconnectedness of the academy’s scholarly pursuits and society’s most pressing concerns. It is both a historical account of the mission of higher education in America, as well as a call for a return to a more significant relationship between universities and community partners. Ernest L. Boyer argues in *Scholarship Reconsidered: Priorities of the Professoriate* that the full range of academic functions required by professors to achieve the objectives of higher education is not reflected in contemporary faculty reward systems. This disconnect leads many professors to encounter difficulty in balancing and prioritizing their time between teaching, research, and service.

To combat this shortcoming, he proposes a broader definition of scholarship which encompasses all the activities required to achieve a university’s academic and civic mandates. The result is a set of four diverse yet connected forms of scholarship: the scholarship of discovery, the scholarship of integration, the scholarship of application, and the scholarship of teaching. With a more encompassing definition of scholarship in hand, Boyer provides recommendations for how academics should use these four forms of scholarship in his posthumous 1996 article “The Scholarship of Engagement,” stating on page 11 that “the academy must become a more vigorous partner in the search for answers to our most pressing social, civic, economic and moral problems, and must affirm its historic commitment to what I call the scholarship of engagement,” the fifth and final form of scholarship proposed. In order to obtain this level of engagement, university faculty must partner with professionals in the knowledge economy and citizens in general at local, regional, state, national, and global levels. This enables the mutually beneficial reciprocal-exchange of resources and knowledge between universities and society at large. This type of relationship represents a democratization of scholarship through the involvement of nonacademics in identifying issues and proposing solutions. Such involvement leads to a reduction in the current gap between theory and practice due to the broader involvement of the community, which better equips citizens to be productive and informed participants in a democratic society. In this entry, the fundamental components of engaged scholarship are provided along with a discussion of how engaged scholarship may be used to formulate and evaluate research questions. The entry also provides a discussion of the historical justification of engaged scholarship, some countervailing criticism of the concept, and the implications of engaged scholarship for modern managers.

### Fundamentals

The engaged scholarship model is composed of the five forms of scholarship proposed by Boyer in his two previously mentioned works. The scholarship of *discovery* is very similar to what contemporary academics generally refer to as “research” with the distinction that importance is placed not solely on outcomes but also on the process and passion with which one pursues new knowledge. The scholarship of *integration* is the process of giving meaning to the insights drawn from the scholarship of discovery by showcasing how results represent a convergence of disparate research fields, which gives additional perspective to the findings. The scholarship of *application* involves the evaluation of how insights derived from scholarly work can be applied to individuals and/or institutions to better serve the interests of the community at large. The scholarship of *teaching* is not merely the process of transmitting knowledge from professor to student, but rather it is the transformation and extension of that knowledge via class activities, assignments, and discussions. This
interaction can inspire students to pursue a career as a professorate, at the same time it spawns innovative new thoughts and directions of the topic on the part of the professor leading the discussion. Finally, the scholarship of engagement is the application of these four aforementioned forms of scholarship to the most pressing social, civic, and ethical problems of the day as identified through close collaboration with members of the affected community.

Andrew Van de Ven has taken up Boyer’s torch of engaged scholarship and developed a model of how academics can leverage engaged scholarship in their evaluation of such complex societal problems. This model is proposed in an effort to create knowledge that progresses both theory and practice while reducing the gap between the two. The knowledge production model is a continuum of processes that can commence from any stage, but it requires collaboration between key stakeholders in addition to the researcher. The model is iterative, so as new subproblems arise, this method enables simultaneous problem solving of lower level issues within the greater research question at hand.

Problem formulation is a journalistic approach to identifying the relevant who, what, when, where, and how of a particular issue. This is accomplished through discussions with those affected, coupled with a thorough review of the existing relevant literature. Theory building involves dialogue with experts in the field in question, as well as an exhaustive literature review. Subsequently, all forms of reasoning (abductive, deductive, and inductive) are used to create, elaborate, and justify new theory as well as plausible alternative theories. Research design develops the method for evaluating the primary and alternate theories by identifying sources of data and the population of interest for sampling. Problem solving entails the dissemination, interpretation, and application of empirical findings, leading to the validation and selection of one of the theories being tested. This final selection of the most appropriate theory is achieved through a process of writing reports and delivering presentations of research outcomes, the meaning and interpretation of which is vigorously debated in order to reconcile conflicts and arrive at a final consensus.

These steps are evaluated in terms of relevance, validity, truth, impact, and coherence. Problems evaluated using this model should be important and relevant to the intended audience, both in academic and professional circles. At the same time, the research design and execution must remain true to the scientific method required to produce unbiased and genuine outcomes. It represents a recalibration of the way in which researchers ask questions and what they do with the answers they derive as opposed to reworking the process of validating results.

Importance

Boyer weaves a tapestry of examples showcasing the historic commitment of universities to the ideals of engaged scholarship. Over the course of 350 years, from the founding of the American colonies through the latter portion of the 20th century, there are a profusion of such examples. They involve university partnerships to improve communities, practical and relevant research initiatives, and the expansion and democratization of the student body. The colonial colleges, though primarily founded to prepare those entering the ministry, were also a training ground for early civic leaders and were established to ensure health of the commonwealth. Rensselaer Polytechnic Institute (RPI) sought to improve the infrastructure of the budding nation by developing a mastery of all manner of building disciplines, most notably transportation, such as railroads and bridges, and disseminating that knowledge to students who would take up the task of actual implementation. The Land Grant Act, like the founding of RPI, was a mechanism for universities to not only advance technological prowess but also to improve the nation’s agricultural and manufacturing capabilities.

At the turn of the last century, representatives from Harvard, Princeton, and Stanford all noted on record the importance of the core aspects of engaged scholarship—practicality, reality, and serviceability. Woodrow Wilson, then a professor at Princeton, additionally warned of the negative effects to society of retreating from this manner of engagement in favor of isolation within the walls of the university. The subsequent decades brought the founding of the largest federal research fund the world has ever seen, the National Science Foundation (NSF), plans for the reconstruction of Europe after World War II (Marshall Plan), and a revamp of American curriculum and creation of summer institutes in response to the successful launching of the Soviet satellite Sputnik—all of which required active participation.
from universities to solve the most pressing issues facing the nation.

Universities also expanded the base of the student population, giving greater opportunity to more members of society and at the same time receiving new ideas and insights from these students, influenced by their varying experiences and backgrounds. The GI Bill of 1944 initiated this process by introducing roughly 8 million new students to the university system in a short time. Later, affirmative action programs continued this metamorphosis across campuses. Yet at the time of Boyer’s work, he found that as this shift from an elite to a mass system of higher education was occurring, the rewards system of the professoriat was narrowing in the favor of specialized research at the cost of educating this new crop of students and solving the next wave of societal problems, which ignited his call for the return to the scholarship of engagement.

Boyer’s work, by way of Van de Ven, has not been received without criticism, most notably that of Bill McKelvey. McKelvey takes exception to the concept of engaged scholarship on many levels and questions its promise as a scholarly road map. First and most simply, he does not find it to be a drastic departure from action research, which first appeared in the literature in 1970, and thus does not find this proposal to be novel. He also notes that biases emerge from partnering with firms when evaluating which research questions to ask. A firm has many interests that they will not jeopardize, even in the name of science, most notably their protection of proprietary information. On the other side of the team, the researchers must keep their partners pleased with the relationship in order to maintain the collaboration and thus might be forced to sacrifice the integrity of the research to salvage the relationship, get bogged down in decision by committee, and potentially settle for the lowest common denominator, which could call results into question in the long term. He states the lack of the emergence of any impactful scientific truth from action research, which first appeared in the literature in 1970, and thus does not find this proposal to be novel. He also notes that biases emerge from partnering with firms when evaluating which research questions to ask. A firm has many interests that they will not jeopardize, even in the name of science, most notably their protection of proprietary information. On the other side of the team, the researchers must keep their partners pleased with the relationship in order to maintain the collaboration and thus might be forced to sacrifice the integrity of the research to salvage the relationship, get bogged down in decision by committee, and potentially settle for the lowest common denominator, which could call results into question in the long term. He states the lack of the emergence of any impactful scientific truth from action research, which first appeared in the literature in 1970, and thus does not find this proposal to be novel. He also notes that biases emerge from partnering with firms when evaluating which research questions to ask. A firm has many interests that they will not jeopardize, even in the name of science, most notably their protection of proprietary information. On the other side of the team, the researchers must keep their partners pleased with the relationship in order to maintain the collaboration and thus might be forced to sacrifice the integrity of the research to salvage the relationship, get bogged down in decision by committee, and potentially settle for the lowest common denominator, which could call results into question in the long term. He states the lack of the emergence of any impactful scientific truth from action research, which first appeared in the literature in 1970, and thus does not find this proposal to be novel. He also notes that biases emerge from partnering with firms when evaluating which research questions to ask. A firm has many interests that they will not jeopardize, even in the name of science, most notably their protection of proprietary information. On the other side of the team, the researchers must keep their partners pleased with the relationship in order to maintain the collaboration and thus might be forced to sacrifice the integrity of the research to salvage the relationship, get bogged down in decision by committee, and potentially settle for the lowest common denominator, which could call results into question in the long term. He states the lack of the emergence of any impactful scientific truth from action research, which first appeared in the literature in 1970, and thus does not find this proposal to be novel.

Most of McKelvey’s criticism is based on his interpretation of engaged scholarship as a synonym for action research. While the concerns outlined regarding the engaged scholarship model are worrisome, it is presumptuous to assume that research that is created with and to be consumed and integrated by business practitioners will lose its rigor and impact. Boyer himself notes that the most influential social change has been spurred by those external to the professoriat, citing books by Rachel Carson (Silent Spring), Ralph Nader (Unsafe at Any Speed), Michael Harrington (The Other America), and Betty Friedan (The Feminine Mystique).

This model of community collaboration is beneficial to managers and practitioners alike as it allows their respective input and needs to drive the research agenda of the institutions of higher learning. The positive results of this symbiosis manifest themselves in two prominent ways. First, research outcomes uncovered through the use of this model will better equip managers to effectively perform their duties and overcome challenges. Second, managers will enjoy improved hiring options from the nascent workforce of university students, as those studying under engaged scholars will be more versed in the most current and pressing business issues.

J. Mark Phillips, Kevin May, and James Bailey

See also Academic-Practitioner Collaboration and Knowledge Sharing; Bad Theories; Firm Growth; Individual Values; Management (Education) as Practice; Managerial Decision Biases; Organizational Development; Organizational Learning; Scientific Management

Further Readings


Entrepreneurial Cognition

Cognition refers to individuals’ (and groups’) perceptions, memory, and thinking. By extension, entrepreneurial cognitions are informed patterns, inferences, and knowledge that entrepreneurs use to make assessments and decisions regarding new opportunities and their potential commercialization. Entrepreneurial cognitions are ways founders think and make decisions about new opportunities amid the uncertainties that entrepreneurial endeavors face. The study of how people think and interact with those around them has been led by cognitive psychology. This cognitive perspective assumes that what people reflect, say, and do is influenced by their own mental processes. This entry addresses several cognitions, such as alertness, heuristic-based reasoning, and motivation, and their implications for entrepreneurs.

Fundamentals

The environment in which entrepreneurs operate tends to be filled with substantial uncertainty. Emerging technologies may have great potential but, particularly in the earlier stages, problems invariably surface. The pathway to the marketplace is almost always longer than expected because of research and development, unexpected customer problems or acceptance, and the need to acquire needed resources. Resolving and navigating such obstacles often requires the decision makers to draw conclusions and make inferences from limited and sometimes piecemeal information. It is within this entrepreneurial context that the cognitive approach has emerged as an important tool in understanding how entrepreneurs navigate their way through new opportunities.

Entrepreneurial cognition is about understanding how entrepreneurs use mental models to piece together previously unconnected information. Connecting dots that may not necessarily suggest linear pathways can enable entrepreneurs to uncover new opportunities that have not been previously identified or developed. Entrepreneurial cognitions enable entrepreneurs to improvise and piece together the necessary resources to start and grow a business. Identifying the cognitions that entrepreneurs use are becoming useful tools for understanding how they navigate their way through the many uncertainties of the world in which they operate.

We now address several specific cognitions that have received significant attention in the entrepreneurial cognition space.

Alertness to new opportunities. It appears that some individuals are more alert to new business opportunities. Consistent with the Austrian economic perspective, some individuals are more alert to potential business opportunities that most others have overlooked. Alertness is like an “antenna” that facilitates the recognition of gaps in the market that are newly emerging or have previously gone unobserved. A heightened sense of alertness allows an individual to notice features that have not been previously noticed. Entrepreneurial alertness is about those who are able to not only recognize something different but are also capable of noticing disequilibrium situations in the market that may support a new venture opportunity. Unique cognitive frameworks with an eye on opportunities allow entrepreneurs to link previously disparate information and knowledge to connect new opportunities. In sum, alertness to new changes and emerging gaps and being able to perceive some connections to new opportunities hold important potential for understanding the way entrepreneurs work.

Heuristics-based reasoning. Heuristics are simplifying strategies and decision rules used to make
Entrepreneurial decisions more quickly or to compensate for the lack of information and uncertainty. They are often seen as an alternative to rational decision making when full information and risk probabilities are unknown. Heuristics-based reasoning recognizes several things about human decision making. One, there is a subjective aspect to human judgment that is reflected in decision making. Two, beliefs start forming in individuals from an early age based on who they are, patterns within their minds, as well as social interactions and experiences. The resulting beliefs affect decision making. Three, experiences, whether they are successes or failures, tend to form an emerging “theory” about how the world works; thus, when emerging patterns are detected in the present, inferences based on developed patterns from the past are often readily brought forward. These and other human conditions are thought to have a significant bearing on what opportunities get noticed and perceived as well as the ensuing decisions.

Research indicates that entrepreneurs use heuristics in their decision making more extensively than do managers in large organizations. While heuristics are often characterized as leading to errors in decision making, they can be quite efficient and help lead to at least satisfactory decisions. In the entrepreneurial context, this can be quite useful as opposed to the more rational process that is likely to lead to very limited decision making and even paralysis. Heuristics-based logic is also thought to help entrepreneurs make inferences in their thinking, leading to more fresh insights than a fact-based logic would allow. Heuristic-based logic enables entrepreneurs to connect dots and see a pattern even in uncertain and complex situations expediting the learning process and the pursuit of entrepreneurial opportunities.

Motivation, self-efficacy, and other cognitions. The motivation of people to become entrepreneurs has long been thought to play a central role in the desire to pursue entrepreneurial opportunities. Self-efficacy, a dimension closely linked to motivation, is characterized as an individual’s belief about their abilities to accomplish a specified activity that they set out to do. A focus of substantial research, self-efficacy has been found to be associated with various tasks and measures of entrepreneurial success.

A couple of additional cognitions that are starting to receive some attention in the entrepreneurial domain are affect and metacognition. Affect draws attention to the influence of emotions on creativity and how entrepreneurs evaluate business opportunities. Affect may well shape evaluations because emotions influence how individuals process information. Metacognition is thinking about thinking. Entrepreneurs tend to be very engaged thinkers who enact multiple cognitive strategies to act (or not) on perceived opportunities. These and other cognitive categories provide us with excellent tools with which to better understand entrepreneurial thinking.

For managers and entrepreneurs, learning about entrepreneurial cognition helps us understand how entrepreneurs think through new opportunities and make decisions. This theory helps explain why entrepreneurs often make new connections, how innovations can emerge from making inferences, and also why entrepreneurs sometimes make decisions that can lead to their venture’s demise. Using cognitive shortcuts, such as inferences and heuristics, tends to be quite efficient most of the time but can sometimes lead to errors as well. Without using such cognitive mechanisms, it is usually impossible to pursue entrepreneurial endeavors since full information is rarely available.

Lowell W. Busenitz

See also Bounded Rationality and Satisficing (Behavioral Decision-Making Model); Discovery Theory of Entrepreneurship; Entrepreneurial Opportunities; Intuitive Decision Making; Managerial Decision Biases; Social Cognitive Theory; Strategic Decision Making; “Unstructured” Decision Making

Further Readings


Entrepreneurial Effectuation

Effectuation refers to a set of heuristics identified with expert entrepreneurial decision making. The heuristics are nonpredictive in that they do not require the decision maker to rely on information about the future. Instead they allow effectuators to act based on things within their control to reshape their environments and build networks of self-selected stakeholders. Effectual heuristics thus find their greatest use in people-centric, highly uncertain, information-poor, ambiguity-rich decision domains. Derived from the Latin verb *effectuare*, the word *effectuation* literally means “to cause things to happen.” Dictionary definitions of the word include the act of implementing (providing a practical means for accomplishing something), carrying into effect, and putting into force or operation. Effectual heuristics differ from the more familiar causal methods in the emphasis on action rather than explanation, human agency rather than physical agency, and a synthetic rather than analytic approach. This entry presents the basic principles of entrepreneurial effectuation.

**Fundamentals**

The technical use of the word *effectuation* in entrepreneurship and economics began with an in-depth study of expert entrepreneurs and later replicated with novices and expert corporate managers. The studies used think-aloud verbal protocol analysis, a cognitive science methodology, long used to identify the components of expertise in a variety of domains. In this method, subjects are asked to think aloud continuously as they solve problems, typically, complex unstructured problems chosen to closely mimic real-life situations. Studies of effectuation have also been carried out using other methods such as surveys, meta-analysis, counterfactual histories, conjoint experiments, and other subject groups such as private equity investors, research and development (R & D) managers, and social media.

Effectuation inverts the conventional logic that claims more accurate predictions are necessary to achieve control over future outcomes. Instead, to the extent decision makers can control the situation, they don’t need to expend energy or resources on trying to predict the future. The five basic principles of effectuation can be presented as straight inversions of predictive strategies as follows:

**The bird-in-hand principle:** Start with a set of means to create a possible effect. Since other stakeholders also bring their means to the table, this often results in a series of accidental, ad-hoc, and serendipitous events producing a novel effect, both unanticipated and/or unimagined. This inverts the idea that entrepreneurs have to begin with clear goals and/or predefined visions of opportunities and then search for ways and means to achieve those goals or discover and realize the opportunities. The bird-in-hand principle sees the entrepreneurial process as a contingent one and it is responsible for the just-so origin stories of many entrepreneurial enterprises.

**The affordable loss principle:** Invest only what one can afford to lose and then iteratively push to expand the upside potential of what has just been made possible. Affordable loss is a failure-management principle that encourages a bias for action rather than analysis. This is in stark contrast to causal methods of opportunity assessment that involve predicting future cash flows and seeking to maximize risk-adjusted expected returns.

**The crazy quilt principle:** Cocreate the enterprise with stakeholders who self-select into the process. This points out a different view of both stakeholders and entrepreneurs. Rather than viewing entrepreneurs as charismatic visionaries and stakeholders as followers, this principle sees the entrepreneurial enterprise as a patchwork
Entrepreneurial Effectuation

effort, where talents, visions, means, and preferences get blended into a one-of-a-kind enterprise. In fact, in the effectual process, the person who chooses to come on board determines what gets built, and not vice versa. The crazy-quilt principle reveals that entrepreneurial efforts are synthetic and bottoms-up, rather than analytic and top-down.

**Lemonade principle:** Clearly, the effectual process is dynamic, interactive, and iterative. It also assumes and propels unpredictability in the system. Therefore, effectuation entails embracing and leveraging surprises rather than planning and seeking to avoid them. Even negative surprises feed back into the bird-in-hand principle to become inputs into the venture creation process. The lemonade principle encourages the actor to reframe the situation rather than adjust to it. It reveals the entrepreneurial process as not being about clear perception but of opportunistic apperception.

**Pilot-in-the-plane principle:** This principle spells out the logic of nonpredictive control at the heart of effectuation. It emphasizes the fact that the future is not exogenous to human action, that is, history is not on autopilot. Because human action is capable of intervening and reshaping trends, the pilot-in-the-plane principle argues for not trusting “inevitable” trends. Instead, when an effectuator encounters a probability estimate, she looks for which conditioning assumptions to reify or falsify, not to simply “update” her priors. Effectual logic, therefore, is not Bayesian—a calculus built on effectual probability would be a control engine rather than an inference engine.

Most importantly, effectual action is learnable and teachable. The role of effectual principles can be, and have been, shown in the life histories of hundreds of entrepreneurs and their ventures—for-profit, non-profit, and otherwise. Taken together, these principles offer a way of tackling the fundamental problem of “judgment” at the heart of entrepreneurship—a problem first spelled out in the seminal work of the great economist Frank Knight and also elaborated upon by the school of Austrian economics.

Effectuation also offers mechanisms for understanding sciences of the artificial, a third class of sciences that differ from the natural as well as the social sciences because they take human purpose not as exogenous and peripheral but as intrinsic and central to their problems. According to Herbert Simon, perhaps the preeminent social scientist of the 20th century, artificial problems are problems of design (creating alternatives) and not simply problems of decision (searching for alternatives and selecting between them). It is precisely in this sense that effectuation recasts entrepreneurship as a science of the artificial.

Finally, effectuation plays a crucial role in ongoing efforts to build an entrepreneurial method analogous to the scientific method. In recent philosophy, the very notion of a “scientific method” has been questioned and criticized. Without taking an ontological stance on the topic, it is historical fact that efforts to build and propagate such a method have enabled the creation of real infrastructure for science and technology and a widening horizon of human progress predicated on that. Efforts to build the entrepreneurial method move us toward widespread access to new solutions and possibilities that are currently available only to effectual entrepreneurs.

Saras Sarasvathy

See also Bounded Rationality and Satisficing (Behavioral Decision-Making Model); Discovery Theory of Entrepreneurship; Entrepreneurial Cognition; Entrepreneurial Opportunities; Programmability of Decision Making; Prospect Theory; “Unstructured” Decision Making

Further Readings


Entrepreneurial Opportunities

That entrepreneurs exploit opportunities to create economic wealth is an age-old concept. However, it has not been until recently that the focus on opportunities has become the cornerstone of entrepreneurship research in the field of management. Opportunities, competitive imperfections in product or factor markets, are the distinctive domain of entrepreneurship. This entry reviews the different types of opportunities that entrepreneurs attempt to exploit—recognition, discovery, and creation opportunities—along with the appropriate processes for exploiting them.

Fundamentals

Opportunities, defined as competitive imperfections, exist in markets when information about technology, demand, or other determinants of competition in an industry is not widely understood by those operating in that industry. The existence of competitive imperfections in markets suggests that it is possible for at least some economic actors in these markets to earn economic profits. This definition is derived from neoclassic economic theory, which suggests that economic actors—be they firms or individuals—operating under conditions of perfect competition will not be able to generate economic wealth. Thus, opportunities to generate economic wealth can exist only when competition is not perfect.

To date, at least three opportunity types have been suggested in the literature: (a) recognition opportunities, (b) discovery opportunities, and (c) creation opportunities. Recognition opportunities exist when prices are misaligned across markets, discovery opportunities are formed by exogenous shocks to preexisting markets or industries that entrepreneurs then discover, and creation opportunities are formed endogenously by entrepreneurs who create them.

Recognition opportunities result from a misalignment in prices across two or more markets. For example, if the current price of land is based on its use as farmland and its value if subdivided for residential properties is much greater, then there is an opportunity for an entrepreneur to buy the land at the lower “farm” price and resell it at the higher “subdivision” price. The difference is economic wealth. This kind of opportunity is called a “recognition opportunity” because the main entrepreneurial task is to recognize its existence and then buy (at the lower price) and sell (at the higher price) the asset. This type of opportunity has also been called entrepreneurial arbitrage.

Discovery opportunities are assumed to arise from competitive imperfections in markets owing to changes in technology, consumer preferences, or some other attributes of the context within which a market or industry exists. In particular, these opportunities emerge independent of the actions of those seeking to generate economic profits from exploiting them and thus are “objective” and “real” in the sense those terms are used by scholars who adopt a critical realist philosophy. The task of those seeking to exploit discovery opportunities, thus, is to be “alert” to the existence of these objective opportunities and to “claim” those that hold the greatest economic potential. In this view, these actors bring “agency to opportunity.”

However, since discovery opportunities are considered by discovery theorists to be objective and real, in principle they could be discovered by anyone operating in an imperfectly competitive market. Of course, not everyone acts on these entrepreneurial opportunities, and so research in this area requires that there are real and objective differences, ex ante, between entrepreneurs and nonentrepreneurs. Without these differences, any actor in an economy could become aware of and then exploit an opportunity—at which point it would no longer be a source of economic profits. However, if those seeking to exploit a discovery opportunity and those not seeking to exploit such an opportunity differ in some fundamental ways, then not all actors in an economy will know about a particular opportunity, or,
Entrepreneurial Orientation

Entrepreneurial orientation (EO) is among the most important and established concepts within the field of entrepreneurship and domain of managerial inquiry. The central premise of EO is that an organization can be considered more (or less) entrepreneurial as a collective entity. The notion of firm-level entrepreneurship represents a clear demarcation from the well-established tradition of investigating entrepreneurship as an individual-level phenomenon. The underlying motivation for the concept of EO is the need to theoretically separate firms based upon their entrepreneurial strategy-making processes and behaviors to facilitate scientific research into entrepreneurial phenomenon across organizations. As such, EO allows for distancing the intentions and attitudes of organizational members from the organization’s overall behavioral orientation toward entrepreneurship. EO posits that all organizations fall somewhere along a conceptual continuum ranging from conservative (the “low” end) to entrepreneurial (the “high” end). Where an organization places within this conceptual continuum depends upon the extent to which the organization’s

See also Agency Theory; Discovery Theory of Entrepreneurship; Entrepreneurial Cognition; Entrepreneurial Effectuation; Entrepreneurial Orientation; Environmental Uncertainty; First-Mover Advantages and Disadvantages; Sensemaking

Further Readings

Entrepreneurial Orientation

strategy-making processes have produced a stable firm-level entrepreneurial behavioral pattern. EO research has provided managers with critical insights into how firms may effectively leverage entrepreneurial strategy-making processes and behaviors to achieve important organizational goals, such as growth and renewal. This entry is structured as follows. In the first section, the fundamentals of EO are described. In the next section, the importance of EO research is discussed. In closing, notable further readings are offered.

Fundamentals

The content of EO may be separated into two distinct yet complementary firm-level constructs. The first construct, originally proposed by Danny Miller and later refined by Jeff Covin and Dennis Slevin, defines the concept of EO as the shared positive covariance between three key behavioral dimensions with rich histories of describing what it means for an entity to be considered entrepreneurial, namely, innovativeness, risk taking, and proactiveness. Innovativeness reflects a firm’s willingness to support new ideas, creativity, and experimentation in the development of internal solutions or external offerings. Generally, innovativeness has been viewed in terms of increased product-market or technological innovation. Proactiveness refers to a firm’s propensity to embrace pioneering, forward-looking strategic actions which anticipate future market demands. Typically, proactiveness has been conceived in terms of the preemption of competitors within the marketplace. Risk taking captures a firm’s bold and daring resource commitments toward organizational initiatives with uncertain returns. Risk taking has most often been envisioned in terms of high-risk, high-return strategic behaviors.

The second construct, proposed by Tom Lumpkin and Greg Dess, suggests two additional dimensions. The first is competitive aggressiveness, which encapsulates the intensity of an organization’s offensive efforts and forceful competitive responses to outperform rivals. The second is autonomy, which captures the extent to which an organization supports independent action by its members to bring about new business concepts and new ventures. Additionally, this alternative view of the construct suggests that the dimensions of EO need not strongly or positively co-vary for an EO to be claimed to exist. Rather, this view suggests that the dimensions which define a firm as being entrepreneurial are those which contribute to the undertaking of new “entry,” or venture. Moreover, this conceptualization of EO suggests that within differing organizational and environmental contexts, the dimensions which lead to greater new entry are likely to be different. For example, in the context of limited innovation, “fast followers”—or firms which enter an industry shortly after a market pioneer and choose imitation over innovation—may still be considered to exhibit EO because they are engaging in new entry. Dimensionally, despite their lack of innovativeness, such firms are still aggressively risking organizational resources toward the pursuit of an uncertain new venture opportunity. Thus, the dimensions which capture the essence of EO, according to this alternative view of the EO concept, are defined as those which enable the pursuit of new entry. In short, within this view, differing contexts may have differing profiles of relevant entrepreneurial dimensions.

Both constructs have received significant attention and support within the literature and may be considered equally valid conceptualizations for investigating the phenomenon of an organizational orientation toward entrepreneurial activity. Reflecting upon the first 30 years of EO research, Danny Miller noted that within differing types of firms, it is indeed probable that differing dimensions of EO will manifest with varied consequences. This is notwithstanding the possibility that innovativeness, risk taking, and proactiveness may at all times be theoretically combined as a higher order indicator of firm-level entrepreneurship. Thus, the choice among EO constructs is a research consideration which should be informed by the demands of the research question and context being explored.

The rationale for the EO concept may be traced to the domain of strategic management. Building upon a view that managerial decisions are reflected within the organizations that these individuals lead and thus the behavior that their organizations exhibit presupposes that sustained firm-level entrepreneurial behavioral patterns are generally attributed to the existence of a top managerial decision-making orientation that favors the manifestation of such entrepreneurial activities. Strategy making is thereby central to the definition and domain of EO as a sustained firm-level behavioral phenomenon. Entrepreneurial behavioral patterns emerge from a
stable organizational strategy-making orientation favoring entrepreneurial (as opposed to conservative) activities. Entrepreneurial top-management styles and operating philosophies create the behavioral patterns which enable an organization to be recognized as having EO.

The domain and influence of EO depends upon a multitude of contextual and temporal considerations. Contextually, a wide variety of considerations has been demonstrated to influence the value of EO as an organizational phenomenon ranging from organizational (structural organicity, organizational trust, etc.) to strategic (marketing orientation, strategic learning, etc.), to environmental (dynamism, hostility, etc.), to sociocultural (societal individualism, masculinity, etc.) factors. Together, these diverse considerations suggest that the manifestation of EO must be actively managed for the firm-level strategic orientation to fulfill its promise as a driver of increased organizational value creation.

Temporally, behavior is the defining attribute of entrepreneurial firms, and sustained behavior is a necessary condition to claim that an orientation toward entrepreneurial activity exists within an organization. Notwithstanding the possibility that firms may cycle between more entrepreneurial and more conservative orientations over time, periods in which an entrepreneurial orientation is present are defined by an entrepreneurial behavioral pattern being maintained for a period of time which exceeds that of a singular or random entrepreneurial act.

An additional temporal consideration stemming from longitudinal research exploring the phenomenon suggests that the effects of EO upon organizational outcomes increase in magnitude over a period of time. These results suggest that EO can be an effective means of improving long-term organizational performance. Yet high-risk, high-reward strategies also inevitably increase variation in firm performance. Behaving more entrepreneurially implies greater experimentation with business concepts and a commitment of resource to new entries with uncertain returns. These behaviors may produce big losses in addition to big gains over time. In certain firm contexts, for instance, where firm resource “slack” is limited, these losses may tax the organizations already thinly stretched resource bases to where firm discontinuation results. Firm survival is therefore an important consideration when increasing organizational levels of EO.

Moreover, behavior is the central and essential element for defining a firm as being entrepreneurially orientated. Nonbehavioral dispositional attitudes and intentions exist outside of the conceptual boundaries and scope of the phenomenon. Distinctions between nonbehavioral organizational attributes, such as organizational cultural norms and values, and EO as a pattern of sustained strategic actions and behaviors is important because while EO and nonbehavioral organizational attributes are distinct phenomenon, they are often dynamically linked.

Importance

An overview of any foundational managerial concept would be incomplete without a discussion of its validity and impact. To begin, EO has been extensively explored within the managerial literature. In line with the theoretical view of EO as a combined construct, studies have most often investigated the dimensions of innovativeness, risk taking, and proactiveness together and observed these dimensions to exhibit moderate to high correlations with one another in practice. A measurement instrument for capturing EO, offered by Jeff Covin and Dennis Slevin, has been extensively adopted within the literature. The instrument has been scrutinized through numerous validity assessments, and a subscale of the items has been observed to possess strong measurement invariance across differing cultural contexts.

EO has been shown to be a very useful conceptual tool for understanding, explaining, and predicting managerial phenomena. Perhaps owing to its origins within the field of strategic management, the most often investigated dependent variable within EO research has been firm performance. A meta-analysis of the EO-firm performance relationship conducted by Andreas Rauch and colleagues suggests that EO has a moderately large correlation with performance which is robust to different operationalizations of the EO concept as well as both financial and nonfinancial measures of performance. The size of this effect is quite remarkable, comparable to the correlation between taking sleeping pills and having a better night’s sleep. To more fully explain the connection between EO and firm performance, researchers have explicated a number of factors which shape the value of organizational entrepreneurial processes and behaviors. Central among these considerations is the
role which industry sector or general environmental dynamism may play in increasing the influence of EO on organizational outcomes. In high technology industries, or more dynamic task environments, EO has been observed to exhibit a much stronger influence on positive firm performance.

Scholarly research into EO has shaped managerial thinking through its adoption within prominent business school textbooks and practitioner-focused articles. EO has encouraged organizational managers to think deeply and strategically about their entrepreneurial processes and behaviors—when they are most beneficial—and how to stimulate them. With stronger EO, firms are better able to create and utilize their knowledge-based resources through experimenting with new business concepts and new entry possibilities. Yet EO is a resource-consuming strategic posture with many contextual contingencies which must be considered and ultimately managed if the phenomenon is to fulfill its promise as a positive driver of organizational value creation. In this regard, prior research has offered numerous propositions and issues for practicing managers to consider when enhancing their organization’s EO—some of the most useful are the extent to which the organization’s structure is organically constructed and the organization’s environment is characterized by dynamic, changing conditions. The reader is referred to the related entries within this encyclopedia, listed below, in addition to several particularly insightful studies on the EO concept offered in the following section for further reading.

William Wales

See also Business Policy and Corporate Strategy; Entrepreneurial Opportunities; Strategic Entrepreneurship

Further Readings


ENVIRONMENTAL UNCERTAINTY

Environmental uncertainty is recognized as a fundamental element of strategic management and entrepreneurship. It is a key concept in various theories such as contingency theory, information process theory, theories of decision making, and theories of entrepreneurship. Environmental uncertainty is a predictor of decision-makers’ behaviors and organizational behaviors and structures and also a moderator of the relationship between organizational behaviors and structures and organizational performance. A widely accepted view contends that environmental uncertainty is the key ingredient influencing organizational structure—the more uncertainty resulting from technological and environmental factors, the more the organization will compensate by departing from bureaucratic structure toward a decentralized mode of operation. In this entry, environmental uncertainty is defined, the
Environmental Uncertainty

sources of environmental uncertainty are clarified, theories of environmental uncertainty are described, and the validity and impact of the theories on environmental uncertainty are examined.

Fundamentals

Definition of Environmental Uncertainty

Environmental uncertainty refers to the perceived lack of information about key dimensions of the environment determining a company’s performance, such as the unpredictability of the environment, the inability to predict the impacts of environmental change, and the consequences of a response choice.

Environmental uncertainty is a perceptual construct. Though some scholars view environmental uncertainty as an objective attribute, it is generally regarded as a perceptual construct. Perception is a function of contextual factors, individual attributes, and cognitive reasoning. External environmental attributes are sources of perceived environmental uncertainty, which are also influenced by differences in motivation, attitudes, and risk propensity of the perceiver. While dimensions of environmental attributes are often used interchangeably as dimensions of environmental uncertainty, it is important to distinguish the sources and types of environmental uncertainty. Specifying the sources of uncertainty identifies the domain of the environment which the decision maker is uncertain about (e.g., technology or market), while specifying the types of uncertainty focuses on delineating the nature of uncertainty being experienced.

Environmental uncertainty is a multidimensional construct. Environmental uncertainty is classified into three types: state, effect, and response uncertainty. State uncertainty represents the inability to predict how the components of the environment are changing. Effect uncertainty describes the inability to predict the impact of the change in the environment of the organization. Finally, response uncertainty is a lack of insight into response options and/or the inability to predict the likely consequences of a response choice given a changing environment. Such a classification implies a conceptual distinction among different types of uncertainty as a function of lack of information in the different aspects of how environmental change influences organizational behaviors. The classification also suggests different types of uncertainty have different implications for decision making in an organization.

Sources of Environmental Uncertainty

Research explores the sources of environmental uncertainty from two aspects: environmental components and dimensions of environmental attributes.

Environmental components. Environmental uncertainty can be derived from several environmental components, such as customers, suppliers, competitors, distributors, regulatory factors, union issues, and technology. Among these factors, technology and markets are the best known sources of environmental uncertainty due to ongoing changes and developments within market composition and technology.

Technological uncertainty refers to the degree of familiarity with the given technology or the degree of change in the technologies relative to products developed or manufactured by a company. Technological uncertainty is high where technology is new or rapidly changing.

Market uncertainty refers to ambiguity concerning the type and extent of customer needs. High market uncertainty may result from a fast-changing or emerging market. In such situations, companies are not sure who the customers are, what they want, and how they can be reached.

Dimensions of environmental attributes. There are many dimensions of environmental attributes, including satiability-turbulence (or dynamism, volatility), familiarity-novelty (or newness), simplicity-complexity (or heterogeneity), and munificence-hostility.

Environmental turbulence refers to the degree in which environmental components act as units of change. It is not change itself—rather, it is unpredictability of the environment that is associated with uncertainty.

Environmental novelty, a related environmental attribute, refers to the degree in which environmental components are new to the decision maker or the frequency with which decision makers take new internal and external factors into consideration. Novelty of environmental components implies decision makers are unfamiliar with such components and are lacking knowledge.
Environmental complexity refers to the heterogeneity of and range of environmental components. A simple environment indicates the components or factors in the decision-maker’s environment are few in number and are similar. Complexity indicates the components in the decision-making unit’s environment are numerous, dissimilar to one another, and interdependent. Individuals facing a more complex environment need greater information-processing requirements to make decisions and thus perceive greater uncertainty.

Munificence refers to the extent the environment supports sustained growth. Organizations often seek out environments which permit organizational growth and stability. This allows the organization to generate slack resources. Environmental hostility describes the scarcity of critical resources needed by firms. When resources become scarce, firms may have fewer strategic options and experience higher competitive pressures, which may result in unfavorable performance.

Role in Management Theories

Environmental uncertainty is a key concept in various theories. Its role in contingency theory, information-process theory, and theory of entrepreneurship is briefly summarized in the following paragraphs.

Contingency theory and information-process theory. Environmental uncertainty is the core concept of contingency theory. The central tenet of contingency theory states an organization will be more effective if its structure is adaptive to the demands of internal and external environmental change. Information-process theory provides a mechanism to explain the contingency theory. Studies show that in order to achieve a given level of performance, the amount of information being processed by decision makers depends on the degree of environmental uncertainty the task possesses. The perceived variation in organizational structure is hypothesized as associated with variations in the capacity of the organization to process information. In general, researchers observed two types of organizations: organic and mechanistic. Organic organizational approaches possess decentralized decision making, rich and frequent communication, fluidity and flexibility in the task execution process, a high level of organizational integration, and few formal procedures. Mechanistic approaches are defined by centralized decision making, formalized procedures, hierarchical structure, and explicit roles and regulations. Researchers suggest the organic form is more effective in highly uncertain environments, while the mechanistic form is effective in stable markets.

Theory of entrepreneurship: Uncertainty and entrepreneurial action. Entrepreneurship is an uncertain process. Theories of entrepreneurship often support the preventive role of perceived environmental uncertainty in entrepreneurial action. When perceived environmental uncertainty is high, new venture managers may feel unsure about the potential success of their new venture’s operations. Environmental uncertainty also influences the assessment of feasibility and desirability of an action. Hence, highly uncertain environments require careful analysis and planning and obstruct entrepreneurial action. Entrepreneurial action can be regarded as the outcome of less perceived uncertainty and more willingness to bear uncertainty. Due to different prior knowledge, motivations, and attitudes, entrepreneurs perceive environmental attributes, such as environmental change, as being less uncertain than nonentrepreneurs. For example, with certain domain-specific knowledge, potential entrepreneurs may recognize an opportunity for a new technology with low uncertainty while others may not. Those who believe an opportunity exists will further consider whether they can win and whether it is worthy of action. Their judgments also depend on prior knowledge, motivations, and attitudes. Entrepreneurs may be willing to bear more uncertainty to act than nonentrepreneurs.

Importance

The validity and usefulness of the theories of environmental uncertainty are examined through three aspects: moderating effect on management systems, the direct effect on entrepreneurial action, and evolving attitudes regarding environmental uncertainty.

Moderating Effects of Environmental Uncertainty

A large number of empirical studies have been conducted on the contingency and information-processing theory. In general, environmental uncertainty has been regarded as a moderator of the relationship between organizational structures and
behaviors and their performance at different levels. In fact, according to most empirical studies, environmental uncertainty is possibly one of the most accepted moderators. Accordingly, one-size-does-not-fit-all has become a popular strategic choice for managers. In a highly uncertain environment, firms need to loosen their rules and procedures in order to embrace employees’ experimentation, empower employees at a lower level, and even spin off an autonomous team to face the challenges of uncertainty. In contrast, in a stable and mature environment, organizations need to centralize the decision-making power and formalize and standardize the rules and procedures to structure employees’ behaviors to improve operation efficiency and yield predictable outcomes.

Studies further suggest different environmental components and attributes have different effects. Therefore, it is necessary to analyze the sources and attributes of uncertainty before any strategy is selected. One study on new product development suggests there are different routes to success under different conditions. When a firm explores an incremental technology change, the firm can and should move rapidly to market. Under conditions of technology newness, it is better to take time to “freeze” the design. When turbulence is high, a firm should develop a new product quickly until diminishing returns are reached. When market newness is high, a firm needs to launch fast and learn quickly in order to capture customer needs in an emerging market.

**Direct Effects on Entrepreneurial Action**

Entrepreneurial action is determined by the amount of perceived uncertainty and willingness to bear uncertainty resulting from differences in prior knowledge, motivations, and attitudes of individuals. While it is unclear if the two effects can be distinguished, some empirical studies suggest different types of uncertainty (state, effect, and response) and environmental components (technology and market) influence the willingness to engage in entrepreneurial action differently. Moreover, the entrepreneur’s expertise reduces the negative effect of entrepreneurial action of effect uncertainty. For example, while response uncertainty has the biggest influence on entrepreneurial action, state uncertainty has the least impact on action. This raises the question, in what setting will environmental uncertainty be meaningful as a predictor of entrepreneurial action? Perhaps entrepreneurs simply assume a general level of environmental change (state uncertainty) as a given. However, entrepreneurs should not try to predict environmental change, which is out of their control. Instead they should focus on their actions and work to understand, calculate, and create the conditions which reduce the effect of uncertainty.

**Evolving Attitudes of Dealing With Environmental Uncertainty**

Differences in attitudes affect how institutions view environmental uncertainty. Traditionally, environmental uncertainty has been regarded as a threat due to the challenges it poses to rationality and the detrimental effect on innovative and entrepreneurial action. Hence, the closed system strategy seeks certainty by incorporating only variables positively associated with goal achievement and subjecting them to a controlled network. Most of an organization’s actions can be explained by the need to reduce environmental uncertainty. Organizations seek to seal off their technical core from environmental uncertainty through buffering, leveling, or forecasting fluctuations. According to this view, reducing environmental uncertainty becomes one of the key administrative guidelines for practitioners. Thus, traditionally, managers do their best to avoid, eliminate, or reduce environmental uncertainty.

Alternatively, modern managers, particularly innovators and entrepreneurs, can view environmental uncertainty as an opportunity to exploit market opportunities. According to Joseph Schumpeter, the appearance of new and unexpected opportunities is necessary to keep economies moving. Such opportunities include the appearance of unforeseen technological development, unanticipated changes in taste, the development of new users for old products, and the discovery of new sources of raw materials. Basically, such opportunities are a source of environmental uncertainty as well. Without uncertainty, innovative and entrepreneurial activity becomes routine. Such action depends on constraints. There can be opportunities when constraints unexpectedly become relaxed, such as when improvements in technology make transactions easier, or entrepreneurs become more opportunistic.

Entrepreneurial and innovative action depends on the willingness to bear uncertainty. Embracing environmental uncertainty can have a number of benefits—fighting overconfidence, reducing
Equity Theory

Equity theory provides a framework for understanding how people come to perceive an exchange relationship as being unfair by focusing on the antecedents and consequences of those perceptions. The theory is especially germane to management because the bulk of the research conducted on it has addressed that context. In addition, perceived injustice can have profound effects in organizations. In this entry, the fundamentals of the theory are laid out, its history and development explained, an assessment of the theory offered, and some further readings suggested.

Fundamentals

Equity theory is a concept focused on the reasons why the outcomes of a social exchange might be perceived as unfair because of a lack of correspondence with the inputs to that exchange. Additionally, the theory shows different ways that people might respond when they perceive that lack of correspondence. The lack of correspondence is considered to be unpleasant and hence the source of motivation to be rid of that unpleasantness—to reduce feelings of inequity. The ways to reduce inequity involve bringing outcomes and inputs back into correspondence by making changes to the outcomes or to the inputs or to both. These can be changes in mere perceptions rather than in the actual outcomes and inputs themselves.

An employee’s perceived inputs might include his or her merit and effort as well as skill, training, education, experience, or seniority. With regard to employees who feel inequitably treated, the relevant inputs are whatever they believe the employer ought to compensate: the perceived contributions to the exchange, for which a fair return is expected. Job-related outcomes, therefore, are the kinds of things that employees perceive should be granted in return for what they have contributed to the organization (e.g., salary, bonuses, promotions, benefits, status). This conceptualization stresses that the sense of inequity is a subjective experience based on one’s own perceptions. Fairness, like beauty, is in the eye of the beholder.

John Stacey Adams referred to the perceived fairness of outcomes in terms of three possibilities: equity, disadvantageous inequity, and advantageous inequity.

See also Contingency Theory; Entrepreneurial Opportunities; Strategic Contingencies Theory; Technology and Interdependence/Uncertainty

Further Readings


inequity. Colloquially, the latter two might be called underpay and overpay. Adams noted how the nature of specific comparisons could affect these. A person making $70,000 per year might feel good about that amount in comparison with someone earning only $20,000 annually, for example, and yet the same person might have an unfavorable reaction if the comparison were to someone earning $200,000 annually.

Consider those salaries on an amount-per-annum basis as not unlike the annual return-on-investment from a mutual fund. What makes for a good return on investment? Suppose you could expect to get a 5% return from mutual fund A ($120 as the outcome for every $100 input). That’s “advantageous” relative to a 2% return from mutual fund B but “disadvantageous” relative to a 10% return from mutual fund C. Adams reasoned that comparisons of outcome/input ratios also formed the basis for perceived inequity, whether in its disadvantageous or advantageous form.

If the set of outcomes and inputs designated by A related equitably to those of B, an outcome/input algebraic equivalence is $O_A/I_A = O_B/I_B$. Similarly, disadvantageous inequity is $O_A/I_A < O_B/I_B$, and advantageous inequity is $O_A/I_A > O_B/I_B$. Based on the algebra of ratios, A and B might exist in an equitable relation with A as 4/1 and B as 4/1 (identical terms as exact equality) or with A as 800/4 and B as 400/2 (equivalence rather than the equality of every term) and so on—such as if the numerator were dollars and the denominator were days worked (e.g., A got $800 for 4 days’ work, and B got $400 for 2 days’ work). By the same token, A with an outcome/input ratio of 20/5 would be in a state of disadvantageous inequity relative to 15/5 for B; the same 20/5 would create a disadvantageous inequity in A’s situation, however, if B’s outcome/input ratios were 40/5 or 16/2 and so on.

The use of algebra has important implications. First note that A and B can stand for anything. Adams referred to the two sides of the equation in terms of Person and Other (he actually used p and a). He described some of the possibilities in his seminal 1965 article as follows:

Other is any individual with whom Person is in an exchange relationship, or with whom Person compares himself when both he and Other are in an exchange relationship with a third party, such as an employer, or with third parties who are considered by Person as being comparable, such as employers in a particular industry or geographic location. Other is usually a different individual, but may be Person in another job or in another social role. Thus, Other might be Person in a job he held previously, in which case he might compare his present and past outcomes and inputs and determine whether or not the exchange with his employer, present or past, was equitable. (p. 280)

Some descriptions of equity theory (a) fail to note that the exchange can involve three parties, when the comparison is with a coworker (viz., same employer), and (b) claim that a process of social comparison guides the search for a comparison other as a gauge of outcome–input fairness. As Adams made clear, the comparison could be with yourself. Indeed, the equation would apply if you compared the tax you pay with what people in other countries pay! (Thus, the introduction here of the equation was given in purely algebraic terms by using the letters A and B.)

An example of the $O_A/I_A > O_B/I_B$ equation for advantageous inequity, or overpayment, led Adams to his theory: the result of an experience when he worked for General Electric (GE) in human resources (when the author was a graduate student of Adams). An employee told Adams that he felt overpaid and was working hard to try to deserve what he was paid. Adams decided that just as people can feel angry when they think they get less than they deserve, they might feel guilty about getting more than they deserve. He also reasoned that there would be a psychological motivation to try to make sure that a nonequivalent distribution—unfairness of either type—could be changed into an equivalent one. In short, people dislike inequity and will try to restore justice when an injustice exists; in one way or another, they try to turn inequitable situations into equitable ones.

Because the equation has four terms (inputs and outcomes for A and for B), striving for equity can focus on any of the four: When $18/6 \neq 24/12$, for example, you can change the 18 to 12, the 6 to 9, the 24 to 36, or the 12 to 8. Changing 6 into 9 is like what the GE employee did, namely, working harder (increasing the size of the input term). Neither reducing your outcomes (18→12) nor reducing your employer’s inputs (12→8) seems realistic, which shows that not all ways of reducing inequities apply to a given situation. Note that harder work
Equity Theory

as increased inputs could also increase the employer's outcomes, which shows that more than one term might be changed simultaneously.

Because fairness is subjective, there are four other ways to achieve equity, namely, changing your perceptions of them rather than actually doing anything about them at all! Imagine you get angry about feeling underpaid—but you can't really do anything about it, so you rethink the situation in ways that make your anger somehow evaporate. You could increase your outcomes perceptually (psychologically, subjectively, cognitively), for example, by deciding that your work provides you with more than just your pay, because the work is really more enjoyable than you had been thinking about it, you had not taken into account all the friendships it made possible, and so on. You could cognitively reduce your inputs by deciding the work was really easier than you had been thinking. Perceiving your employer's outcomes and inputs differently are also ways that you might make adjustments so that the situation seems more equitable. Adams even included a bailout or “leaving the field” avenue of inequity reduction (e.g., quitting your job).

Inequity reduction is a two-staged process: (a) Certain circumstances cause you to perceive an inequity; (b) you then are motivated to do something (actually or cognitively) to one or more of the four terms of the equation. The point is that you might feel an inequity at first and then later not at all, even though nothing had really changed. You would simply have found a way to justify the input-output relations to yourself, in the same way that dissonance theory describes how people use rationalizations to justify their behavior by changing their attitudes. In other words, Adams said that the experiences of inequity and dissonance are equivalent.

Equity theory also has boundary conditions that are far less constricted than many management theories, and its algebraic formulation is so abstract. Changing imbalance into balance is an abstract idea. Feeling discomfort (Adams called it a state of psychological tension) and wanting to turn that into a more comfortable feeling is a highly abstract way of describing motivation (in fact, it is hard to think of how else to conceive of motivation other than as the desire to make things other than they are now, which means being dissatisfied with how they are now!). The two sides of the equation could represent a variety of things; for example, Person and Other might refer to groups rather than to individuals, as when the outcomes/input ratio of a set of jobs such as toolmakers is out of line with those of jobs such as lathe operators, or when ethnic groups feel inequitably treated relative to one another. It should also be noted that some people are more sensitive than others to the violation of equity.

**Evolution**

It is possible to think of the first phase of equity theory's history in relation to the theme of boundary conditions. As previously mentioned, at GE, Adams had encountered an instance of “advantageous inequity” firsthand. To him, it seemed counterintuitive. In a subsequent career stage as a professor, he had contact with Leon Festinger (of dissonance fame), which helped provide insights about how perceived inputs and outcomes could be distorted cognitively. The result was that Adams conducted empirical work on equity theory by exploring the overpay case and how people would deal with the “guilt” of an unfair advantage. He was under no illusion that this kind of research would be easy; he had readily acknowledged that dissatisfaction and guilt thresholds differ from one another: the outcome/input ratio will be more deviant from equity before someone feels guilty about being overadvantaged, relative to the deviation it takes for someone to react negatively to feeling underadvantaged. We could say that Adams was trying to push at the boundaries of the theory's predictions in choosing to do research on overpay conditions.

He did that in a series of ingenious laboratory experiments. Although these experiments used college undergraduates and hence might be thought to have limited how much the results would generalize to real organizations, he staged these experiments as if they involved actual part-time work. Students performed identical work while being paid on either an hourly or piece-rate basis in some of the experiments. In others, Adams hired students to do proofreading and made them think that they were (or were not) overpaid because they were (or were not) underqualified. The latter studies showed that the students who perceived themselves as being underqualified reduced their overpayment inequity by doing higher quality proofreading (they found and corrected a greater number of errors than did the members of two other conditions, made to feel equitably paid in either of two different ways). The former studies
showed that predictably different ways of reducing overpay inequity were used depending on the way in which the overpayment occurred (viz., on an hourly or on a piece-rate basis).

As the history of research on equity theory evolved, it was these studies that attracted the most attention. They almost immediately produced criticism. Advocates of alternative explanations helped to launch debates that constituted most of the literature on the subject for a few years. Gradually, the interest in the theory itself waned. Scholars of organizational justice eventually became more interested in how the nature of decision-making procedures would influence reactions to outcomes, rather than how the outcomes themselves would have an influence (i.e., interest in what became known as procedural justice).

Disadvantageous inequity received little attention of much note other than for one particularly interesting type of finding in regards to an imaginative way in which the research participants reduced inequity perceptions by using cognitive distortion. Those participants were recruited by Karl Weick, who had them all work on the same task but made one group feel inequitably undercompensated. Weick found that the members of that group responded in a novel way to the task itself: Relative to the other participants, they evaluated their experience in a more glowing way that Weick called “task enhancement.” That result is in fact a direct parallel to dissonance studies in which students work on boring tasks but believe their own experience when they are led to make it sound attractive to someone else; they subsequently convince themselves that it was interesting, exciting, and enjoyable.

Perhaps one reason that research on equity theory dissipated was that it was not very easy to predict which such results might be obtained. Here is a boundary condition of another kind: When a theory is so abstract that it can predict almost anything, in practice it can predict nothing! People who feel underpaid might distort the experience cognitively, rationalize their way into thinking it was fun, and work that much harder because they now thought they enjoyed it so much—or they might resent the unfairness of it all and instead work less hard (thereby reducing their employers’ profitable outcomes). People who feel overpaid might work that much harder to get rid of their guilt, or they might rationalize in one way or another that they really deserved what they were getting, and hence feel no need to increase their work efforts at all.

This problem shows that it takes a careful examination of a given situation in order to figure out whether someone will be motivated in a particular way or not. Research by Robert Folger and colleagues provides an illustration. Based on the connection between equity theory and dissonance theory, it was reasoned that details relevant to the antecedents and consequences of dissonance reduction would have implications for equity theory predictions. By then, a person’s choice and sense of responsibility for the consequences of his or her choice (particularly if there were some unattractive features of those consequences) had been determined to be important to dissonance phenomena. Folger and colleagues drew on that logic to design studies in which people “chose” (unknowingly steered by the experimenter) or did not choose to be “overpaid” or “underpaid.” Choice/underpayment led to the task-enhancement effect that Weick had found; moreover, the researchers were also able to extend Weick’s findings by obtaining enhanced task productivity in that condition. In contrast, no-choice/underpayment participants felt dissatisfied and performed poorly. The reversal of those patterns occurred in the remaining conditions: no-choice/overpay participants worked hard as a function of their undeserved good fortune, whereas choice/overpay participants were like slackers who were “only in it for the money”—they found the task itself to be dull and performed it listlessly.

Importance

Perhaps because research on outcome disparities became eclipsed by developments in procedural justice, the validity and impact of equity theory is not an actively considered issue. It seems safe to say that academic scholars (a) take the basic insights of the theory for granted and (b) do not attempt to pursue it as a research stream of their own—in part because the issue of where the right-hand side of the equation comes from (the “comparison other problem”) seems so formidable. The theory has instead been amalgamated into the more generic realm of “distributive justice,” alongside considerations of equality and need as other norms of distribution (distributive, procedural, interactional, and informational justice are now considered in
conjunction with one another). Managers certainly have some intuitions about the importance of fairness to employees, but it is doubtful that they apply the specifics of the theory itself. Two commentators sum up probably the best evaluations of it. John B. Miner used ratings from experts in the field to assess organizational theories. His results showed that equity scored almost 6 on a scale where 7 was the highest possible, ranking it third among all those evaluated (73 theories in all). At the same time, he gave it only a 3 out of 5 when rating its usefulness in application. Gary P. Latham also gave it high marks on the side of academic endorsement and was more enthusiastic about applicability in saying that he found it useful in his own consulting work. The clearest contribution of the theory, however, has been in the inspiration it provided for the explosion of work in the field of organizational justice more generally, and the value of that more general orientation cannot be denied.

The overall message for modern managers is to note the determinants of fairness perceptions. Some employees will perceive a new job assignment as a positive outcome that makes work more interesting, whereas others perceive it as doing more for the same pay. Some will expect a more extensive education to be an input deserving more pay, whereas others might consider seniority to be more important. Some employees might make internal comparisons to coworkers, whereas others might be focused on this year’s raise compared to last year’s. Managers should look for signs of perceived inequity, such as increases in turnover and absenteeism, reduced productivity, and so on—then find out what employees think is being rewarded, should be rewarded, and rewarded to what degree and relative to what standards. Managers need to communicate why and how specific inputs and outcomes are important to the organization’s functioning. Using clear-cut and well-justified standards (e.g., industry or local wage averages) will help.

The challenge to execute those matters with care is obviously important when it comes to issues such as gender bias and comparable pay, such as biased perceptions that a woman’s contribution is not as valuable as the same contribution by a man. Having multiple indicators of those contributions should make it easier to spot that type of discrepancy. That calls for vigilance and periodic review. Under some circumstances, it can be worthwhile to avoid pay secrecy because rumors or runaway imaginations can create the presumption of inequity where it does not exist—when people overestimate what those around them are getting paid. When and if such transparency is implemented, of course, the “burden of proof” goes up in terms of valid justifications for differentiated outcomes (of any type that might seem to imply special treatment, such as the status of office assignments). If competitive benchmarking and other signs of transparency can be given sufficient publicity and if they receive acceptance as valid, then distorted speculations would be less likely even if salaries themselves were not necessarily open to public inspection.

Robert Folger

See also Cognitive Dissonance Theory; Expectancy Theory; Fairness Theory; Human Resource Management Strategies; Norms Theory; Social Exchange Theory

Further Readings
ERG Theory

ERG theory is a needs-based theory of motivation developed by Clayton Alderfer in the late 1960s. ERG stands for the three basic needs—*existence*, *relatedness*, and *growth*—understood to influence human behavior. Alderfer’s theory represents an expansion and refinement of Abraham Maslow’s *hierarchy of needs* theory. Like other needs-based theories, Alderfer’s theory signifies an important development in our understanding of motivation. Namely, what motivates human beings is a variety of needs that must be satisfied through both extrinsic (external) and intrinsic (internal) means. However, Alderfer’s ERG theory is specifically worthy of consideration because its explanation of how different needs categories relate to one another differs significantly from earlier needs theories. What follows is a detailed description of ERG theory, including the needs categories, how these categories relate to one another, and Alderfer’s underlying psychological reasoning to explain these relationships. In addition, ERG theory is compared to the aforementioned Maslow’s hierarchy, and significant differences are delineated. Next, research into the validity of ERG theory is examined as are ways in which this theory is applicable in practice.

Fundamentals

ERG theory groups human needs into three basic categories—existence, relatedness, and growth. These three types of human needs influence behavior. *Existence needs* refer to fundamental physical aspects a person desires in order to achieve well-being. These include both physiological and material elements required for well-being, such as pay, benefits, safety, and security. *Relatedness needs* reflect the extent to which an individual desires healthy, meaningful relationships with people considered by this individual to be important or significant. *Growth needs* denote the desire a person has to make a meaningful contribution in what they do: to feel involved, to accomplish goals of consequence, and to personally develop and improve.

These needs categories are similar to the ones found in Maslow’s hierarchy of needs. Existence needs parallel Maslow’s *physiological* and *security* needs, relatedness needs are analogous to Maslow’s *social* and *esteem* needs, and growth needs are comparable to Maslow’s *self-actualization* needs. Alderfer intended his categories to be a refinement of Maslow’s needs sets by eliminating what he viewed as problems in Maslow’s theory with overlapping needs and by aligning these categorizations more closely to empirical research on human needs. In his description of ERG theory, Alderfer makes a distinction between relatedness needs and the other two needs categories; unlike the other two categories of needs, relatedness requires *mutuality*—a sharing or interaction with others to satisfy this type of need.

The three categories of needs represent separate, distinct constructs and are not necessarily intended to imply a specific ordering. Instead, Alderfer describes needs categories as running along a continuum according to their level of *concreteness*. Existence needs are considered the most concrete due to the ease with which an individual may determine their fulfillment or their absence. Relatedness needs are thought to be less concrete than existence needs, and growth needs are considered the least concrete. The notion of a continuum instead of a distinct, requisite ordering signifies an important difference between ERG theory and Maslow’s hierarchy, which will be discussed later.

According to ERG theory, needs may manifest in the form of complex or *compound* needs comprising multiple-needs categories. For example, a person might desire to be named as project manager, which could result in increased pay (existence need), an opportunity to build different relationships with colleagues (relatedness need), and the chance to develop leadership skills (growth need).

ERG theory is based upon two key elements: *desire* and *satisfaction*. And as such, it is intended to both explain and predict the outcomes of interactions between satisfaction and desire in relation to human needs. *Desire* corresponds to the notions of want, preference, and the strength of such wants and preferences. *Satisfaction* is likened to fulfillment. The theory describes how desire and satisfaction each affects the other. In ERG theory, a person may desire any or all of the three needs categories at any given time. Satisfaction in one category influences the extent to which the person attends to other needs categories. This influence follows the concrete continuum; specifically, once a more concrete category of needs is met, a person’s attention turns to the next set of needs category along the continuum.
On the other hand, if a person feels less satisfied with regards to a needs category, that person will regress back to a more concrete set of needs. For instance, if someone’s desire is satisfied with regard to existence needs, the desire to satisfy relatedness needs is increased. However, if a person feels less satisfied in terms of relatedness needs, the frustration experienced by that person will cause a regression or refocus back on the more concrete category of existence needs. This is known in ERG theory as the frustration-regression process. Additionally, it is worth noting that according to this theory, someone’s desire for relatedness and growth needs will continue to increase even when satisfaction is experienced for these categories. This assertion by Alderfer reflects the concepts espoused in classical aspiration level theory. Namely, individuals will raise their aspirations and create new, more challenging goals when they feel satisfied that they have reached current goals. If an employee is pleased with the degree of relatedness experienced at work, it is likely this employee will continue to desire and work toward relatedness. Similarly, opportunities to satisfy growth needs will encourage further development and growth.

As stated earlier, ERG theory and Maslow’s hierarchy of needs are similar in that both theories utilize categories of needs. However, ERG theory differs from Maslow’s in a number of significant ways. First, ERG includes only three needs categories as compared to Maslow’s five. Second, there is the issue of prepotency. According to Maslow, lower order needs must be satisfied before higher order needs can emerge. This means that physiological needs must be met before needs such as belonging or self-actualization become salient to the individual in question. In contrast, ERG theory asserts that needs can (and often will) emerge at the same time, described above as compound needs. Although needs are categorized as higher or lower order based on where they fall along the concrete continuum in ERG theory, it is not necessary to fully meet one set of needs before another needs set becomes salient. Finally, ERG theory incorporates the idea of the frustration-regression process. Thus, a person’s focus can fall back to a more concrete needs set when frustration exists about a less concrete needs set, whereas Maslow’s theory allows only for forward progression from lower to higher order needs.

Importance

Research on ERG theory has resulted in mixed results, although it is better supported than Maslow’s hierarchy of needs theory. Studies support the idea that the desire for needs continues to motivate past the point of satisfaction. The practical implication of this finding is important. Managers who wish to motivate their employees can implement intrinsically motivating programs to encourage continued growth, development, and relationship building with the expectation that these programs represent sustainable motivators. An individual who feels empowered to develop skills and make a meaningful contribution will continue to desire opportunities to further develop and grow. An employee who feels involved and connected within the organization will wish to maintain and build upon these relationships. Support has also been found in favor of the three needs categorizations delineated in ERG theory. Again, this helps inform managers of the general needs types they will most likely encounter among their employees (albeit, in varying degrees). There is also empirical evidence to suggest that satisfying relatedness needs can be a significant factor in job performance, not only for frontline employees but also for managerial employees. Furthermore, results indicate that the satisfaction of growth needs indirectly influences performance through enhanced self-esteem. It should be noted, however, that ERG theory was developed in and for a Western culture, that of the United States. As such, its use should be carefully and mindfully administered in cultures that deviate from Western cultural perspectives.

From a broader, more theoretical perspective it is worth noting that ERG theory, along with other needs-based theories, challenges the behaviorist notion of motivation. As noted by organizational behavior scholars Rober Kreitner and Angelo Kinicki, behavioral theory represents a narrower interpretation of motivation, with an emphasis on the link between reinforcement and behavior. As such, extrinsic motivators overshadow intrinsic options. In contrast, needs-based theories, such as ERG, illustrate how varied human needs may be, acknowledge the complexity inherent in the interaction between desire and satisfaction, and highlight the necessity of both extrinsic and intrinsic motivational options.
For managers, ERG theory explains that different types of needs can occur simultaneously. As such, managers should refrain from directing their attentions to one need set at a time. Managers must also remember that needs are a relative concept; in other words, what fully satisfies the desire of one person with regards to a needs set might not satisfy another person. Also, what motivates individuals and what is most salient and desired by them is likely to change over the course of their lives. For managers, this speaks to the importance of knowing and understanding one’s employees. It also illustrates to managers how individualized and varied employee needs can be. This means managers should avoid a one-size-fits-all approach to meeting employee needs and should instead make efforts to customize motivation efforts with their employees’ unique desires in mind. Finally, they should make such efforts with the understanding that continued opportunities to satisfy needs will perpetuate desire and result in ongoing efforts by employees for further satisfaction.

Rhetta L. Standifer

See also Job Characteristics Theory; Needs Hierarchy; Organizationally Based Self-Esteem; Self-Determination Theory

Further Readings


**Escalation of Commitment**

When a decision maker discovers that a previously selected course of action is failing, she is faced with a dilemma: Should she pull out her remaining resources and invest in a more promising alternative, or should she stick with her initial decision and hope that persistence will eventually pay off? Management scholars have documented a tendency of decision makers to escalate commitment to previously selected courses of action when objective evidence suggests that staying the course is unwise. In these situations, decision makers often feel they have invested too much to quit and make the errant decision to “stick to their guns.” This entry describes the nature of “escalation of commitment,” its most likely causes, decision characteristics that exacerbate its severity, how it can be prevented, and why it is important.

**Fundamentals**

Escalation of commitment is a risk whenever a decision maker (a) commits resources to a course of action (thereby making an “investment”) in the hope of achieving a positive outcome and (b) experiences disappointing results. Invested resources may take any form from time, money, and labor to mental and emotional energy. For example, an individual risks escalation of commitment across the following diverse circumstances: when deciding between committing more money to bail out a foundering start-up versus investing elsewhere, when choosing between investing in more job training for an underperforming employee versus firing and replacing her, or when weighing whether to invest in marriage counseling versus seek a divorce.

While there are many situations where the best course of action is to commit further resources to a failing investment, the term *escalation of commitment* describes only those situations where objective evidence indicates that continuing with an
explanations for escalation of commitment

self-justification theory. self-justification theory provides one explanation for why people escalate commitment to their past investments. Feeling personally responsible for an investment that turns sour intensifies the threat associated with failure and increases a decision maker’s motivation to justify the original choice to herself. Negative feedback on a past investment decision calls the validity of the original decision into question and is dissonant with a decision maker’s natural desire to see herself as competent. Many decision makers attempt to eliminate this conflict by convincing themselves that their failing ventures will turn around if they simply invest more resources. To do so and succeed would prove that the original choice was valid and eliminate the “cognitive dissonance” created by the initial negative feedback.

confirmation bias. biased information processing is one way that decision makers reduce the dissonance that arises when their positive self-perceptions conflict with evidence that past investments are underperforming. After committing to a choice, people are far more likely to notice and overweight evidence that supports their decision and ignore and underweight evidence that does not. Furthermore, decision makers actively seek information that confirms the validity of their decisions. This means that the domain of losses. Negative feedback on an investment frames the decision about whether to continue with the current course of action as a decision about whether to accept a loss or to take steps to prevent locking it in. This loss framing may lead decision makers to go to great lengths and take unwise risks to avoid losses. Escalation of commitment may therefore occur as a result of loss aversion.

impression management. impression management explanations of escalation behavior focus on a decision maker’s need to justify her past choices to others. The outcome of an investment is rarely free from external scrutiny, and a decision maker may escalate commitment to her original investment to avoid admitting to others that the venture was a failure or that her decision was flawed. Such admissions might cause others to doubt her competence. Furthermore, people tend to punish decision makers for inconsistency. For example, the term flip flopper was effectively used to negatively brand the Democratic candidate John Kerry in the 2004 U.S. presidential election when he updated his views on the second Iraq War. When a decision maker switches from her originally endorsed course of action, observers may take it as a sign of weakness or lack of confidence. Thus, even when a decision maker knows that escalation is not the best option, she may choose to escalate commitment to avoid appearing inconsistent.

managers should know not only why escalation of commitment occurs but also when it is most likely to occur and to what degree. Next we discuss factors that influence the likelihood and severity of escalation of commitment.

factors that influence the risk of escalation of commitment

personal responsibility. an individual is more likely to commit additional resources to a bad investment if she was the one who originally endorsed it. In fact, experimental evidence has shown that merely asking people to imagine they were responsible for choosing a failing venture makes them more likely to escalate commitment than asking them to imagine that someone else was responsible for the investment. Furthermore, two of the causes of escalation of commitment that were discussed previously—self-justification and
impression management—are driven by feelings of personal responsibility for an investment.

**Sunk costs.** The more resources that have been spent on an investment, the more likely a decision maker is to escalate commitment. However, because these resources are irrecoverable, it is irrational to factor them into decisions about future outcomes. When considering investment possibilities, a decision maker should ignore these “sunk costs” and choose the alternative that will yield the highest payoffs regardless of the resources that have already been expended. The desire to honor sunk costs is driven by psychological factors including loss aversion (refusing to accept the “loss” of expended resources), self-justification theory (needing to justify past expenditures to oneself) and impression management (wanting to avoid appearing wasteful to others).

**Proximity to completion.** The closer a project is to completion, the more likely decision makers are to exhibit escalation of commitment. Invested time is one form of sunk cost, so it is more difficult to abandon a project the nearer it comes to completion (i.e., as sunk costs increase). However, there is evidence that proximity to project completion is related to the likelihood of escalation independent of sunk cost considerations. Goal substitution theory maintains that, as the end of a project nears, completion-oriented goals begin to supersede the original goals of the project (e.g., profit goals). Because decision makers become caught up in the desire to finish the project, they are more likely to escalate commitment to attain completion goals even when more profitable alternatives are available.

**Exogenous explanations for failure.** Escalation of commitment is also more pronounced when past investment failures can be blamed on unforeseeable, exogenous events. For example, a business startup’s lack of profits could be blamed on an unexpected economic downturn. Any opportunity to blame a setback on an exogenous source helps a decision maker maintain his positive self-concept and the belief that his original decision was valid, increasing the risk of escalation of commitment. Motivated biased information processing can also lead decision makers to assign excessive blame to exogenous impediments while underweighting flaws intrinsic to an investment, further exacerbating escalation of commitment.

**Group decision making.** Past research on escalation behavior in groups has highlighted two countervailing forces that affect the risk of escalation. On one hand, having multiple decision makers increases the likelihood that someone will recognize the irrationality of investing further resources in a poor venture. On the other hand, adverse group dynamics, such as groupthink (a phenomenon where the desire to avoid intragroup conflict makes group members overly compliant), can artificially reinforce the original decision and override considerations of alternatives. Past research integrating these perspectives suggests that group decision making decreases the likelihood of escalation of commitment; however, when escalation does occur in groups, it is more extreme.

### Importance

Escalation of commitment has been studied across a diverse set of important business settings. For example, past research on the banking industry demonstrated that senior bank managers escalate commitment to the loans they select by retaining them even after they prove to be problematic. Specifically, executive turnover significantly predicts de-escalation to these problematic loans. Researchers have also shown that radical Wall Street stock analysts become even more extreme in their forecasts about a company’s yearly earnings when new announcements reveal the analysts’ quarterly forecasts were errant. This pattern of escalation harms analysts’ forecasting accuracy and reduces their likelihood of winning prestigious awards linked to increased compensation. Researchers have also documented escalation behavior in managers’ personnel decisions. Supervisors of clerical workers in a large public sector organization who originally supported hiring or promoting an employee subsequently provide positively biased evaluations of that employee. Finally, escalation behavior has even been found among professional sports managers: Teams in the National Basketball Association (NBA) escalate commitment to their top draft picks by fielding and retaining these players longer than would be wise based on their performance alone.
Knowing why and when escalation occurs can help managers avoid this common decision bias. The research discussed above suggests several prescriptions for avoiding escalation of commitment, which are listed below (with the source or aggravator in parentheses):

- Actively seek disconfirming information about a chosen alternative (confirmation bias).
- Reframe losses as gains to prevent risk-seeking behavior (loss aversion).
- Structure incentives so that decision makers are not punished for inconsistency (impression management).
- Hand off decisions about whether to commit more resources to an investment to new decision makers (personal responsibility).
- Be careful not to consider expended resources when making decisions (sunk costs).
- Make sure decision makers are frequently reminded of the goals of the investment (proximity to completion).

The field research summarized above highlights that escalation of commitment occurs in diverse management settings and can lead to serious negative consequences for decision makers. For example, it can lead bank executives to retain bad loans, stock analysts to make inaccurate forecasts, managers to retain and promote low-quality employees, and NBA teams to rely excessively on weak players. Accordingly, escalation of commitment is an important bias for managers to be aware of and aim to avoid.

Theresa F. Kelly and Katherine L. Milkman

See also Cognitive Dissonance Theory; Decision-Making Styles; Groupthink; Managerial Decision Biases; Prospect Theory

Further Readings


Ethical Decision Making, Interactionist Model of

In the 1980s, a number of ethics-related scandals in business and other organizations were garnering media attention, suggesting that management theorists might wish to attend to the arena of ethical decision-making behavior in a way that they had not previously done. Organizational behavior researchers, borrowing from work by psychologists, were moving beyond debates about person or situation effects toward recognizing the importance of both individual and situational influences and their interactions on behavior. But there were no explicit models guiding research on ethical decision making and behavior. In 1986, Linda Treviño adopted an interactionist view on ethical decision making in organizations which posited that ethical decision making in organizations results largely not only from the individual’s cognitive moral development but also from the interaction of cognitive moral development with other individual differences and contextual features. She offered the model in an attempt to move
beyond normative approaches that provide guidance about what people “should” do in ethically challenging situations and beyond less theoretically grounded survey research that had previously identified problems with ethical pressures in organizations but did not offer much in the way of theory that could guide future empirical research. However, other research that had been conducted in the 1970s pointed in the direction of taking into account both individual differences and organizational factors. For example, two laboratory studies by W. Harvey Hegarty and Henry P. Sims found support for the influence of Machiavellianism, rewards for unethical behavior (both increased unethical behavior), and organizational ethics policies (reduced unethical behavior). As noted above, the movement toward an interactionist view also fit with broader trends in organizational behavior. This entry outlines the person-situation interactionist model, describing its essential features. It begins with an overview of cognitive moral development theory, followed by an explanation of how contextual influences and other individual differences are posited to interact with cognitive moral development to influence ethical decisions and behavior.

**Fundamentals**

An understanding of the model requires a basic understanding of cognitive moral development theory and its proposed direct relationship with ethical decision outcomes. However, because those direct relationships are modest, it is important to consider how other individual differences and features of the contextual environment interact with cognitive moral development to produce ethical or unethical behavior.

**Cognitive moral development.** Treviño proposed that, in order to understand ethical decision making in organizational context, it would be helpful to begin with Lawrence Kohlberg’s theory of cognitive moral development. Beginning in the 1960s, Kohlberg studied boys over time as they developed in their cognitive abilities and their reasoning about ethical issues. His work was later extended to the study of adults. Kohlberg found that people developed through stages that ranged from more self-centered and less autonomous to less self-centered and more autonomous. In his theory, moral development requires a process called “role-taking” in which the person is able to cognitively put him or herself in another person’s shoes. Stages one and two were termed the preconventional level. At Stage 1, individuals are concerned about concrete consequences, obedience to authority figures, and sticking to rules to avoid punishment. At Stage 2, individuals remain self-interested but evolve to consider interactions with others and one-hand-washes-the-other kind of thinking—getting a good deal for oneself. The second level, comprising Stages 3 and 4, was labeled the conventional level. At Stage 3, people look outside to significant others for guidance. They are concerned with living up to expectations of peers and relevant others. At Stage 4, upholding laws and rules becomes important. The third level was labeled postconventional or principled. At Stage 5, people look more inside themselves for guidance. They also uphold rules, but they do so because the rules serve the greater good and are consistent with values of fairness and rights and with the social contract. Stage 6 was proposed but was found to be only a theoretical stage that applied only to the rare philosopher.

**Cognitive moral development and ethical decision making and behavior.** Research since the 1980s by Augusto Blasi and James R. Rest and, more recently, a meta-analysis by Jennifer J. Kish-Gephart and colleagues has shown a moderate correlation between cognitive moral development (judgment) and ethical decisions and behavior. Research has also shown that the more principled the individual, the more she or he would resist unethical influence. Because the correlation is only a moderate one, the question becomes, what else influences the relationship between judgment and behavior?

**Contextual moderators.** Most adults have been found to be at the conventional level, looking outside themselves for guidance in ethical dilemma situations. Therefore, Treviño proposed that these conventional-level individuals would likely be significantly influenced by situational factors, such as organizational reward systems and organizational culture, while those at the principled level would be more likely to do what they have reasoned is the right thing to do regardless of situational factors. Treviño also proposed that cognitive moral development could be advanced by certain types of work
that allow the individual to have role-taking experiences that regularly challenge moral thinking. For example, physicians who frequently wrestle with ethical dilemmas are expected to advance in cognitive moral development more than people in more mundane jobs where ethical dilemmas arise less frequently.

**Individual difference moderators.** Treviño further proposed that individual differences such as locus of control and ego strength would influence the relationship between cognitive moral development and ethical or unethical behavior. For example, ego strength has to do with one’s strength of conviction and ability to resist impulses. Therefore, those higher in ego strength are expected to exhibit more consistency between their moral judgment and action than those lower in ego strength. Similarly, locus of control concerns the individual’s perception of how much control she or he exerts over events in life. “Internals” see outcomes as the result of personal effort while “externals” see outcomes as resulting from chance or luck. Treviño theorized that internals would therefore be more likely to take responsibility for outcomes and demonstrate more consistency between moral judgment and action than would externals.

**Importance**

Much research has now been conducted on the factors that influence ethical and unethical behavior in organizations. However, only a small number of studies have tested Treviño’s model directly. In 1990, Treviño and Stuart A. Youngblood supported a dual-influences (both individual differences and contextual factors), rather than an interactionist, perspective. The focus was on reward-and-punishment contingencies, and the authors added outcome expectancies as a mediator. The authors found that ethical and unethical decisions were influenced directly by cognitive moral development. Locus of control influenced decision making both directly and indirectly through outcome expectancies, and vicarious reward (recognition that ethical behavior was rewarded in the organization) influenced decisions indirectly through outcome expectancies. Later, in 2002, Jerald Greenberg found support for the interactionist perspective in a study of employee theft. Employees at the lowest (preconventional) level of cognitive moral development were more likely to steal from their employers if they worked in an environment that did not have an ethics program. Those at the conventional level of cognitive moral development who worked in an environment with an ethics program were less likely to steal. In keeping with Treviño’s model, these conventional-level employees were thought to be significantly influenced by the ethics program because of their tendency to look outside themselves to the organizational context for guidance about the right thing to do. Finally, in 2006 Carol Ann Windsor and colleagues also supported the interactionist perspective, using the Treviño and Youngblood simulation in their laboratory study. Subjects made less ethical decisions if they were low in cognitive moral development and also received information that the organization condoned unethical behavior. In that same environment, subjects high in cognitive moral development made more ethical decisions.

A recent meta-analysis of the research on the influences on unethical choice in organizations conducted by Kish-Gephart, David A. Harrison, and Treviño in 2010 found support for the dual influences idea as well. It presented evidence for a direct influence of cognitive moral development and locus of control, as well as other individual differences (Machiavellianism, idealism or relativism). It also found support for a number of situational variables, such as ethical codes that are enforced and ethical climate and culture. The authors called for more research on the interactions among these individual difference and situational variables. Because few studies had tested the interactions proposed in Treviño’s model, they could not be assessed in the meta-analysis. Results of the meta-analysis also suggested that future research should attend to the more intuitive/impulsive-affective side of ethical decision making rather than the more deliberative approach represented by cognitive moral development theory and other earlier theories.

Insights from the model can be used by modern managers to understand that the large majority of their employees are looking outside themselves for guidance. Therefore, the management of ethical conduct is essential if ethical behavior in the organization is the goal. Ethical climate, culture, reward systems, and leadership have all been found to have significant influences on employees’ ethical behavior and are worthy of managerial attention. It may
also be worthwhile to assess employees’ level of cognitive moral development and other individual differences such as locus of control because understanding employees’ profiles may provide opportunities to target certain employee groups for training or enhanced supervision.

Linda Treviño

See also Decision-Making Styles; Individual Values; Locus of Control; Moral Reasoning Maturity; Organizational Culture Theory; Positive Organizational Scholarship; Reinforcement Theory

Further Readings


EUROPEAN MODEL OF HUMAN RESOURCE MANAGEMENT

Human resource management (HRM) is contextual. Theories of European HRM focus the subject on stakeholders rather than shareholders and encompass a wide view of the topic. Such theories arise from the unique context of Europe and reflect the conceptual specifics and the internal variety of European HRM. Arguments have been made for the notion of “European HRM” as a conceptually distinct approach. The foundations of a distinctive European approach lie in its approach to “stakeholders” rather than “shareholders.” This is reflected in four subsidiary issues: the role of the state, a belief that people have “rights” in and to their jobs, an acceptance that consultation is proper, and a more critical and less “managerialist” agenda going beyond the HRM-organizational performance link. Though none of these elements is unique on its own, the specific combination in Europe leads to conceptual distinction. In this entry, readers will initially explore the fundamentals of European HRM and then each of these four subsidiary topics in turn before identifying the importance of a European approach to HRM for practicing managers.

Fundamentals

Human resource management as a concept developed in the United States. The analysis it provides and the best practices it preaches may not be relevant in regions like Europe. Europe is heterogeneous. For example, the Council of Europe covers 47 nation-states; the European Union (EU) alone has 23 official languages and more than 60 indigenous regional or minority language communities. Centuries-old and often belligerent relationships between European countries created a tradition of tension and rivalry as well as a desire to work together. As noted in the Global Leadership and Organizational Behavior Effectiveness (GLOBE) studies of Robert J. House and colleagues, significant differences exist between cultural clusters—for example, the Nordic, Anglo-Saxon, Roman, and Germanic clusters. There are also important institutional differences in such factors as labor markets, levels of education, legal systems, and trade union membership. The richer countries in Europe have a
per capita gross domestic product (GDP) five times the poorer countries. It is no surprise that many of the key studies in varieties of capitalism have been written by scholars from Europe and focused on this region.

Despite all these differences, there is also homogeneity. Factors that are common to European countries and taken together distinguish them from other regions. In particular, the European Union plays a crucial role. Currently, 27 European countries are members of the EU, and Norway and Switzerland also follow the EU’s social policy. The EU’s four freedoms—the freedom of movement of goods, persons, services, and capital—exemplify this best and have direct implications for HRM. Free movement of persons created new options for labor market mobility and affects HRM especially in areas such as recruitment, career planning, and compensation. The EU also makes deliberate efforts to invest in the human capital available for organizations through programs that support the exchange of people within Europe and create informal networks of understanding and contacts.

Against this backdrop, European does not imply a monolithic context. On the contrary, both commonalities and differences do play a role. Thus, researchers have (a) distinguished HRM in northern Europe from that found in southern Europe; (b) linked differences in HRM to main cultural groupings within Europe; (c) focused on the presence or absence of communitarian infrastructures, finding the Anglo cultures distinct from the rest of Europe; (d) emphasized the importance of the role of the state and differences between countries such as the United Kingdom, Ireland, and the Nordic countries in which the state has a more limited role in industrial relations versus the Roman-Germanic countries, such as France, Spain, Germany, Italy, Belgium, Greece, and the Netherlands, where the opposite is true; (e) used the institutional literature to find differences between the liberal market economies of the United Kingdom and Ireland, the Nordic countries, the collaborative market economies of the central continental European countries (sometimes separating out the flexicurity countries of Denmark and the Netherlands), and the Mediterranean countries.

Unsurprisingly, a more contextual (as opposed to a universalistic “best practice”) perspective dominates the academic discussion of HRM in Europe. This focuses on understanding the differences between and within HRM in various contexts and the causes of these differences. Factors such as culture, ownership structures, management decision processes, labor markets, the role of the state, and trade union organization become critical.

**Stakeholder Rather Than Shareholder Approach**

The emergence of the subject of HRM in the United States in the 1980s was characterized by a stronger emphasis on strategy. The assumption was that the purpose of HRM is to improve the operation of the organization with the ultimate aim of increasing organizational performance, as judged by its impact on the organization’s declared corporate strategy or its shareholders.

The European stakeholder perspective challenges this view and acknowledges the greater array of actors within and outside the organization that are relevant to survival as well as for economic success. Groups who have a legitimate stake in the organization include, for example, employees, customers, trade unions, creditors, and nongovernmental organizations (NGOs). The basic argument of the stakeholder approach is that such groups have a collective interest in the organization such as regarding decisions about employment, keeping the environment clean, or acting as a good corporate citizen in the local environment. In some countries, some of these groups have a legal basis for influencing organizational decisions. For example, in the Germanic countries, codetermination through works councils and trade unions is comparatively strong and legally regulated.

**The Role of the State**

It has been argued that the major difference between HRM in the United States and in Western Europe is the degree to which HRM is influenced and determined by state regulations. Companies have a narrower scope of choice in regard to personnel management than in the United States. Not only does the state have a higher involvement in underlying social security provision and a more directly interventionist role in the economy, but it provides also far more personnel and industrial-relations services and is a more substantial employer in its own right by virtue of a more extensive government-owned sector. For example, most European
countries have a substantial share of the 18 to 24 age group in higher education and in addition provide substantial support to employers through state-aided vocational training programs. Equally, in most European countries, much higher proportions of the GDP are spent by the state on labor market programs. This includes training, retraining, job-transition support, job-creation schemes, and programs to help younger people and the long-term unemployed get into the labor market. Substantial proportions of employment (up to 50% in some countries) are in the public sector. The state plays a larger role in HRM partly by being a larger employer than in the case in many other world regions and partly by taking a more controlling and/or supporting role in employment practices. With the state as an employer, a number of basic parameters for HRM change. The time horizon for HRM activities is different, with less pressure for short-term results. In addition, the education and training infrastructure put in place by the state and still mainly state provided in most European countries has a significant impact on organizational HRM. Although human resource development practices vary considerably by country in Europe, in world comparative terms, the provision is extensive and of good quality. State support for posteducation training is also high and gives these countries an advantage in country-level competitiveness.

**People’s Rights in and to Their Jobs**

By and large, the state in Europe accepts and guarantees people’s rights in and to their jobs. Legislation is not independent of national values, and it is no surprise therefore to find that the United States, which is characterized by high levels of individualism and comparatively low levels of uncertainty avoidance, has overall comparatively less legislative control over (or interference from, or support for) the employment relationship than is found in most of Europe. There are legislative requirements on pay, on hours of work, on forms of employment contract, rights to trade union representation, requirements to establish and operate consultation or codetermination arrangements—and a plethora of other legal requirements. These are all additional to those few areas such as the legislation on equality or health and safety, which intrude on the employment relationship on both sides of the Atlantic.

**The Importance of Consultation and Collective Representation**

In Europe, there is frequently a shared understanding that businesses need to be controlled and to treat their employees in a socially responsible way. Consequently, key questions in HRM are about communication and consultation with the workforce. Employee representation, or “voice,” may take individual or collective forms. Individually, cultural differences, in particular the influence of hierarchy, will have an impact on the way that managers communicate to their workforce. Organizations across Europe are increasing the amount of communication and consultation in which they involve those employees. Communication with the workforce is higher in the north of Europe than in the south but is everywhere extensive. The collective forms include both union-centred and nonunion mechanisms. In Europe, these tend to be complementary. Legislation in countries such as the Netherlands, Denmark, and, most famously, Germany has for a long time required organizations to have two-tier management boards, with employees having the right to be represented on the more senior supervisory board. In all EU countries, the law requires the establishment of employee-representation committees in all organizations except the smallest. These arrangements give considerable (legally backed) power to the employee representatives.

The legislative status and influence accorded to trade unions is a further core feature of European states. Europe is the continent with the strongest independent trade unions. It is clear that, in general, the European countries are more heavily unionized than most other areas of the world. The unions are in many countries supported by legislation and, at the EU-level unions, management and governments, the “social partners” as they are called, are required to consult with one another.

**Importance**

European academics have been at the forefront of criticism of the rhetoric of HRM. Studies of HRM in Europe tend to take a more critical view of the topic than is common elsewhere. At the level of the organization (not firm—public sector and not-for-profit organizations are also included), the organization’s objectives (and therefore its strategy)
Evidence-based management (EBMgt) is the use of the best available evidence to improve the quality of managerial decision making. The concept was coined around 2005 and reflects a broader trend in professions including medicine, education, public administration, and so on for evidence-based practice, that is, the increased and more effective use of scientific findings in practice-related decisions. EBMgt builds on the body of management and social science research to make more systematic decisions.

See also Critical Management Studies; Cultural Values; Human Resource Management Strategies; Institutional Theory; Neo-Institutional Theory; Transnational Management

Further Readings


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decisions that incorporate the best available organizational and scientific evidence. The following sections describe EBMgt’s four main components, its importance, and implications for management practice; recommended readings are identified at the end for interested readers.

**Fundamentals**

EBMgt incorporates well-established scientific findings regarding critical thinking, human judgment, decision making, and learning to aid managers in acquiring quality information and putting it to use. The set of practices that make up EBMgt achieve better quality results in organizations by improving the practitioner’s knowledge, judgment, and competencies. It comprises four fundamental activities that can be applied in the everyday exercise of management judgment and decision making: (a) use of the best available scientific findings; (b) gathering of and attending to organizational facts, indicators, and metrics in a systematic fashion to increase their reliability and usefulness; (c) ongoing practice of mindful, reflective judgment and use of decision aids to reduce bias and improve decision quality; and (d) consideration of ethical issues including the short-term and long-term impact of decisions on stakeholders.

EBMgt incorporates scientific findings in two ways. It involves use of scientific evidence when relevant to the specific management decision at hand. It makes use of standard procedures based on what the evidence suggests works. The kinds of scientific knowledge that might be used in making an evidence-based decision are broad ranging, from all areas of management research and beyond, depending on relevance to the managerial decision.

EBMgt practice is not a cookbook or a formula. It is a variety of science-informed approaches that can be adapted to make better quality decisions in the service of organizations, their members, stakeholders, and the public. Evidence is not answers. It is input to the information and processes that help practitioners to make better judgments and decisions. Thoughtful practitioners adapt EBMgt’s four facets as needed.

**Use of Scientific Knowledge**

Scientific knowledge is the bedrock of all evidence-based approaches to practice, from medicine to criminology to education. EBMgt is built on the scientific premise that there is an underlying degree of order in which a common set of basic physical, biological, social, and psychological processes occur. Scientific knowledge is distinct from other forms of knowledge because it is based on controlled observations, large samples sizes (N), validated measures, statistical controls, and systematically tested and accumulated understandings of how the world works (i.e., theory). Scientists are generally subject to the same biases and value judgments of other people. The important difference is that the scientific method provides checks and balances to reduce these biases. The advantage science has over individual experience is that scientific research is essentially a project involving many thousands of people using systematic methods to understand the world. Personal experience is plagued by the problem of small numbers: It reflects an individual’s interpretation of events in his or her life. With its scale and scope, science can counter the human tendency to overinterpret small bits of information and underestimate randomness. EBMgt emphasizes the importance of peer-reviewed evidence and the value of systematic reviews of research to address managerial questions.

**Use of Business or Organizational Evidence**

Making fact-based decisions in organizations is not easy. The basic metrics and indicators used in business decisions start out as raw data generated by the efforts of organization members or people outside the organization. Raw data can omit important information (e.g., counts of errors may not tell whether they were significant). Data are also contaminated in that information may be biased (e.g., underestimates of revenues can make forecasts unreliable). Business facts also need to be interpreted (for example, how much turnover is too much? Some employees might leave positions for “good reasons” such as a lack of fit or because they are reallocated to where they may make stronger contributions); judgments are affected by practitioner roles and background. Facts are also political; the business information on which managers rely can be highly politicized. EBMgt emphasizes the importance of systematic gathering of business evidence, giving priority to its reliability and validity.

**Reflective Judgment and Decision Aids**

Making decisions based on facts requires a set of supporting practices that increase the reliability and usefulness of available data. EBMgt practices that
promote effective decision making include reflective managerial decisions incorporating feedback processes and decision aids, such as logic models, to promote mindful assessment of the circumstances of the decision and available information. A logic model spells out the process by which an organizational intervention, program, or strategy is expected to produce certain outcomes. It is one form of decision aid; others include checklists, process maps, and other tools that prompt recall, reflection, and information gathering. Another process aid is decision tracking, obtaining systematic feedback on the outcomes of certain organizational decisions, which can improve both learning and the decision process.

**Making Ethical Decisions With Consideration of Stakeholders**

Making ethical managerial decisions is subject to an array of human biases as well as role demands, situational pressures, and conflicting interests. Stakeholder considerations are an inherent feature of systematic decision models and help managers appreciate how their organization fits into its larger environment and how its standard operating procedures affect employees, investors, customers, suppliers, and the public generally. Heuristics and frameworks, like the decision aids described above, can aid making ethical decisions too.

**Importance**

Evidence of the validity of EBMgt rests largely on the validity associated with its component practices. Validity for the use of specific kinds of scientific evidence in managerial decisions is provided by employment selection decisions based on scientifically established practices, such as structured interviews, work samples directly tied to the content of the job, and certain forms of standardized tests. Similar bodies of evidence are related to managerial decisions associated with performance assessment, employee training and development, negotiation and conflict management, and organizational change. Increasingly, such bodies of evidence are the subject of summary texts (e.g., handbooks) and of systematic reviews to assess the findings the evidence supports.

At the same time, consideration of the depth, consistency, and quality of evidence in managerial research has identified that managerial research domains vary in their current capacity to provide clear evidence of what works to practice. Both organizational behavior and human resources are subject matter areas with a long history of cumulative research. Entrepreneurship demonstrates several lines of highly cumulative research. In contrast, the study of organizational theory and strategy to date has yielded fewer cumulative research domains and less convergent evidence, with possible exceptions in some topic areas.

The attention that EBMgt brings to the practical implications of managerial research also identifies a shortfall in current management research, the dearth of practice-oriented research. Practice-oriented research examines how practitioners currently practice. It provides information regarding conditions and support practices that make scientific knowledge more useful. At present, EBMgt is limited largely to early adopters and management innovators and is not mainstream organizational practice. Practice-oriented research, by calling attention to problems practicing managers confront, allows specific solutions to be identified as common practice problems, a way of making it more likely that managers will apply EBMgt practices. Practice-oriented research in other areas such as medicine and nursing has eased the adoption of evidence-based practice by identifying required supports while reducing factors that work against their adoption or effective implementation. In medicine, this kind of research has been termed “translation science.”

EBMgt is a very different way of thinking and practicing management. The lay view is that management is learned from hands-on experience. The idea that academic research can inform business decisions doesn’t fit this tradition. EBMgt introduces new dimensions to what it means to be a manager. Making one’s management practice more evidence based can be threatening, feeling both like pressure and loss of control. EBMgt requires engaging in a learning process that can move through the stages of novice to intermediate to expert. It takes time, effort, and good support to become an evidence-based professional manager.

Not every manager is motivated to use evidence. Non-evidence-based practices and personal intuition tend to be the norm for decisions regarding managing people, structuring work, and developing business strategy—and people tend to be comfortable with the status quo. EBMgt appeals to practitioners willing to invest time and effort to expand their knowledge, expertise, and personal depth, drawn
to it because of the benefits it offers and intrigued by the personal learning and discipline it involves. It engages managers in a deliberative, life-long effort to develop their professional knowledge, judgment, and impact on organizations.

EBMgt also poses new demands on management educators, to help practitioners develop their ability to think critically, acquire relevant scientific knowledge, and apply evidence-informed methods for better quality decision making. It calls for scholars to pay more attention to the cumulative nature of research and to make their findings more accessible and easier for practitioners to use.

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**See also** Academic-Practitioner Collaboration and Knowledge Sharing; Bounded Rationality and Satisficing (Behavioral Decision-Making Model); Critical Management Studies; Decision Support Systems; Ethical Decision Making, Interactionist Model of; Garbage Can Model of Decision Making; Groupthink; Intuitive Decision Making; Managerial Decision Biases; Programmability of Decision Making; “Unstructured” Decision Making

**Further Readings**


**EXCELLENCE CHARACTERISTICS**

Although the term *excellence* has been defined and used in various contexts and fields during the long history of humankind, the term in relation to management and organizational performance was first introduced and popularized by Peters and Waterman in their best-selling 1982 book *In Search of Excellence—Lessons from America’s Best-Run Companies.* Since then, the term became increasingly more popular, and today there are many management frameworks, models, and programs which bear the term excellence in various ways, for example, the European EFQM excellence model and, in the United States, the Malcolm Baldrige Performance Excellence Program. This entry is a review of some identified managerial characteristics of excellence from various management approaches. First, some original ideas as well as definitions are presented, followed by the introduction of some central frameworks, core values, and concepts. The entry ends with a short discussion of the importance of excellence.

**Fundamentals**

As there are various ways to adopt the term excellence in managerial contexts, there are also many definitions. However, the term excellence is generally associated with meanings of “extraordinarily good” or “performing outstandingly.” When something is excellent, then, we can assume that it is in the state of quality, condition of excelling, or in the state of superiority. In this entry, excellence will be delimited to managerial performance. Even here, the definitions vary from context to context. Excellence can be defined broadly as related to an organization or, more narrowly, to aspects of an organization’s performance, such as leadership. An example of a definition related to an organization is seen in the EFQM excellence model: Excellent Organizations achieve and sustain superior levels of performance that meet or exceed the expectations of all their stakeholders.
In ancient Greek, the word arete is used to denote excellence, and in its earliest usage, the concept included the meaning of living up to one’s full potential. Similar meanings about excellence can be found in writings by Confucius (551–479 BCE). Self-control and self-development via lifelong training and education were not only considered to be the methods to realize one’s full potential but also the way to achieve harmony in society in general. For this reason, the leader’s role was especially emphasized by Confucius. His famous notion, stated in the Analects, of junji, which can be translated as “superior or excellent man” or “leader” demonstrates this: “The junji (superior/excellent man or leader) makes people’s merits grow and demerits to decrease, while the inferior man does the opposite.”

From this standpoint, excellence includes doing common, everyday things and is not necessarily determined by comparing one’s score or a performance to someone else’s. The pursuit of excellence comes from doing our best with a view of growing and improving in terms of realizing one’s potential. Excellence must then be related to our efforts on how we continuously develop and utilize or mobilize our capabilities throughout our lifetime.

Models/Frameworks of Excellence

Models of excellence can be subdivided into simple models and complex models.

In 1985, Tom Peters and Nancy Austin published a second book on excellence, called A Passion for Excellence. The findings from the first book were now simplified into a model with the four criteria, or critical success factors of (1) people who practice excellence, (2) care of customers, (3) constant innovation, and (4) leadership that binds together the first three factors by using “management by wandering around” (MBWA) at all levels of the organizations.

Other simplified models have since been suggested, for example, Dahlgaard-Park and Dahlgaard’s 4p excellence model in 1999 and Jeffrey K. Liker’s 4p model of the Toyota Production System, published in 2004 (The Toyota Way), which was regarded as the leading excellence model of the car manufacturing industry because Toyota, at least until the crisis in 2010 and 2011 related to huge recalls, was perceived as synonymous with excellence.

- Dahlgaard-Park & Dahlgaard’s 4p excellence model has the following five criteria: leadership, people, partnership, processes, and products, where it is a leadership responsibility to attain excellence by building excellence into the 4p criteria.
- Liker’s 4p model also has four excellence criteria, as follows: philosophy, process, people/partners, and problem solving.

With the worldwide launch of quality award models, from 1988 onward, the concept of excellence became gradually more and more complex and important because the leading quality award models changed their names and/or changed their focus in the late 1990s to have direct relations with well-accepted business excellence criteria. Examples follow:

- The EFQM (European) Quality Award model, launched in 1992, underwent a change in name in 1997 to the EFQM business excellence model, which after the turn of the 21st century became the EFQM excellence model to signal that the new model not only included business excellence aspects but also societal excellence aspects. The European excellence model included from the beginning four results criteria, and the model had from the beginning five enabler criteria and four results criteria, which in the recent revision from 2010 were named as follows: leadership, people, strategy, partnerships and resources, processes, products and services, people results, customer results, society results, key results.
- The U.S. quality award model, called the Malcolm Baldrige National Quality Award, which was launched in 1987, changed the program’s name to the Baldrige Performance Excellence Program to reflect the evolution of the field of quality from a focus on product, service, and the customer to a broader, strategic focus on overall organizational quality called performance excellence. The original version of the Baldrige model did not include business results because it was believed that achieving excellent results was automatically achieved if the organization could show excellence in the model’s six enabler criteria: leadership, strategic planning, customer and market focus, human resource focus, process management and
Excellence Characteristics

measurement, and analysis and knowledge management. Today, the business results criterion has been included as the seventh criterion of the model. The Baldrige model emphasizes that the excellence criteria are both context and time dependent, because they have developed three sector-specific versions of the criteria. They are general, education, and health care criteria, which are revised every 2 years. The award program promotes awareness of performance excellence as an increasingly important element in competitiveness. To receive a Baldrige Award, an organization must have a role-model organizational management system that ensures continuous improvement in delivering products and/or services, demonstrates efficient and effective operations, and provides a way of engaging and responding to customers and other stakeholders. The award is not given for specific products or services.

Core Values and Concepts

The critical success factors for attaining excellence have different names and contents in the various excellence models. For example, in the European model, they are called the fundamental concepts of excellence, and in the U.S. model, they are called core values and concepts.

The European model has identified the following eight fundamental concepts of excellence: achieving balanced results, adding value for customers, leading with vision, inspiration and integrity, managing by processes, succeeding through people, nurturing creativity and innovation, building partnerships, and building responsibility for a sustainable future.

The U.S. model, by contrast, includes the following 11 core values and concepts: visionary leadership, customer-driven excellence, organizational and personal learning, valuing workforce members and partners, agility, focus on the future, managing for innovation, managing by fact, societal responsibility, focus on results and creating value, and systems perspective.

When assessed as qualified for getting an excellence award or other excellence recognitions, companies’ applications are checked for integrating core values and concepts into the excellence model in use. For example, in the European model there is a guideline to follow when checking the eight fundamental concepts with the model’s five enabler and four results criteria.

At a general level, Dahlgaard-Park and Dahlgaard recently introduced the code of excellence that consists of five phrases: Excellence can be achieved if people care more than what others think is wise, risk more than what others think is safe, dream more than what others think is practical, and expect more than what others think is possible.

Importance

It follows from these frameworks, models, and programs and the organizations and authors behind them that to attain extraordinary performance organizations should strive to understand, adapt, and implement the criteria or principles of the chosen excellence model.

Peters and Waterman did not provide a definition of excellence, but after having studied and analyzed 62 American firms with outstanding performance, they identified eight characteristics of excellent companies. Several other lists of best excellence practices have since been presented. Such lists typically describe the key enabler characteristics, which differentiate organizations with excellent results from organizations with mediocre or poor results. The British Quality Foundation (BQF) published such a list in a report about business excellence in 1998, and the differentiating characteristics or criteria were as follows: (a) management commitment to the business excellence “journey”; (b) effective strategic planning; (c) an emphasis on people issues through empowerment and training; (d) unprecedented levels of employee participation through effective communication of and involvement in the organization’s goals, mission, and objectives; (e) process understanding, management, measurement, and improvement; (f) deliberately avoiding jargon to ensure a seamless integration of business excellence practices; (g) nurturing a culture that focuses implicitly and explicitly on anticipating and serving customers’ needs; (h) demonstrating concern for better environmental management; and (i) making the internal spread of best practices contagious.

Lists such as the BQF list or Peters and Waterman’s list of eight characteristics concerning organizational excellence can be found in several areas of the literature. Such lists may be valuable for organizations that decide to embark on “the journey to excellence,” but they may also be misleading. Managers may misunderstand that the list of characteristics is exhaustive, and they may not understand the interrelationships and logical linkages between them, as the lists mix various elements and may not provide
a proper guiding framework. Most important is that lists of best practices are always based on the contexts in which the analyzed companies did their business. Any specific company is unique, and hence, the context will vary from company to company. Adaption is for that reason necessary. Simply copying the best practices of other companies may be hazardous.

Su Mi Dahlgaard-Park

See also High-Performing Work Systems; High-Performing Teams; Learning Organization; Organizational and Managerial Wisdom; Organizational Learning; Seven-S Framework; Total Quality Management; Transformational Theory of Leadership; Trust

Further Readings


EXPECTANCY THEORY

Aligning individual goals with organizational objectives is critical to effective management. Expectancy theory describes the components of successful alignment. In the remainder of this entry, I will describe the theory and its impact on the fields of psychology and management. With the benefit of nearly 50 years of hindsight, I now address the changes that I would make, the research that has led me to these changes, and the ways in which expectancy theory can benefit the practice of management.

Fundamentals

Expectancy theory rests on the assumption that much behavior is motivated and goal directed. Goals induce forces on people to engage in courses of action which they believe will result in their attainment. This was stated formally in two propositions. The first proposition asserted that the force on a person to perform an activity or set of activities is a function of the attractiveness or valence of a goal multiplied by the expectancy that the activity will result in the attainment of that goal. Since there may be multiple anticipated outcomes, some positive and some negative, the valence of each is multiplied by its expectancy and summed over outcomes as shown in the following equation.

\[ F_i = f_i \left( \sum_{j=1}^{n} (E_{ij}V_j) \right) \]

Where: \( F_i \) = the force to perform act \( i \)

\( E_{ij} \) = the strength of the expectancy that act \( i \) will be followed by outcome \( j \)

\( V_j \) = the valence of outcome \( j \)

This proposition is useful in predicting behavior, such as deciding how much effort and energy to invest in carrying out work. Applied to work motivation, this proposition asserts that the amount of effort that a person puts into the achievement of a performance goal is dependent on two necessary conditions—that the goal is attractive and that the person believes that it can be achieved through effort.

The second proposition asserts that outcomes acquire valence to the degree to which they are believed to be instrumental to the achievement of one’s goals. In effect, perceived a “stepping stone” to the achievement of goals become goals, the means become ends. As before, multiple consequences believed to be associated with the stepping stone require summation over outcomes each multiplied by its instrumentality.

\[ v_j = f_j \left( \sum_{i=1}^{m} (V_i I_{ik}) \right) \]

Where: \( V_i \) = the valence of outcome \( i \)

\( I_{ik} \) = the perceived instrumentality of outcome \( j \) for the attainment of outcome \( k \)

\( V_k \) = the valence of outcome \( k \)
Note that expectancy theory said nothing about the motives or needs that drive human behavior. It has frequently been termed a process theory rather than a content theory, such as those of Abraham Maslow or Clayton Alderfer. The two types of theories potentially complement one another. Content theories address the basic human motives underlying human conduct, while the process theories are concerned with the way in which these motives, and goals based on them, influence people’s actions.

Expectancy theory was first published in my 1964 book called Work and Motivation. Here, I applied the theory to three aspects of the relationship between people and the work they do: (a) peoples’ choices among work, both occupations and jobs, (b) their satisfaction with the work they do, and (c) their effectiveness in performing their work. The theory provided a reasonable explanation for organizing the relevant research on each of these three areas of inquiry. It also identified some gaps in the existing literature and provided an explanation for the frequent finding that measures of job satisfaction and of job performance tend to be uncorrelated.

In applying expectancy theory to work performance, a decision had to be made about the specific behaviors that would be indicative of highly motivated work behaviors. I chose the term effort. I did not mean to equate work with “heavy lifting” or to imply that people make conscious decisions about how much effort they would expend in doing their job on a given day or month. However, they do make choices about how much time they spent in doing their jobs, how adequately they prepare in advance for their work, and how persistent they are in overcoming obstacles and distractions. Aggregated over time, such choices influence one’s effectiveness. The underlying process is motivation and is represented in the strength of the motivational forces influencing people to use their mental and physical energy in ways that benefit their work performance.

Possibly, the theory’s greatest heuristic value stemmed from its prediction that desires have no motivating value unless there is some expectation that their achievement is at least partially under one’s control. Valence does not create forces unless expectancy is greater than zero. Motivating people to achieve a performance goal involves both making the goal attractive and strengthening their belief that it is attainable. Consider, for example, the rallying cry of Barack Obama’s campaign for the presidency—“Yes, we can!”

Expectancy theory seems to have met a need in industrial psychology. Work and Motivation was selected as a Citation Classic by the Committee on Scientific Information and remains in press almost half a century after its initial publication. Its main features have been incorporated into the theorizing of others, and it can be found in most textbooks dealing with the intersection of psychology and management. It has also stimulated considerable research, most of which sought to test its predictions about work performance.

Evolution

Early applications of psychology to improve the effectiveness of organizations dealt largely with the measurement of aptitudes and abilities and their use in selection and placement. It was not until the Hawthorne experiments in the 1930s and the experiments of Kurt Lewin and his colleagues a decade later in the Harwood Manufacturing Company that psychologists began to turn their attention to the role of motivation in work performance. Effectiveness required not only the requisite skills to do the job but also the motivation to carry it out.

As a graduate student in psychology in the mid-1950s, I was caught up in the excitement of this new emphasis on work motivation. It struck me as not only of practical importance but also of relevance to the discipline of psychology. I was significantly influenced by the writings of Kurt Lewin, who had died almost a decade earlier. His concepts of force, valence, and psychological distance seemed potentially applicable to motivation and work. His admonition that “there is nothing as practical as a good theory” supported my belief that theory can be useful in guiding both research and practice.

I did depart from Lewin on a couple of issues. I avoided his concept of psychological distance, instead substituting the term expectancy, used by Edward Tolman, R. Duncan Luce, Howard Raiffa, and John Atkinson, all notable theorists of the time. A second departure lay in my use of
the term instrumentality, which serves to connect goals and subgoals.

**Toward a New Expectancy Theory**

Despite the success of expectancy theory, there are several things that I wish I had done differently. One involves the use of formal mathematics in the expression of the “two propositions.” I suspect that I am guilty of what my colleague, Warren Bennis, has called “physics envy.” Without the formalization, I might have better conveyed my conviction that expectancy theory, like Lewin’s field theory, should be used primarily for its heuristic value. It provided a language for formulating interesting questions and guiding both practice and research design. I lament the fact that my equations encouraged many investigations seeking to “test” expectancy theory by multiplying questionnaire measures without regard to the ratio-scale properties required by the theory. I also wish that I had more clearly differentiated between two types of performance goals. In one of the propositions, the valence of a performance goal is seen as dependent on its instrumentality for other outcomes. I had in mind two classes of other outcomes—those that are intrinsic to the task and those which involve the actions of others. Thus, a worker may work exceptionally hard on a task because he or she believed that performance would lead to a promotion and/or because it would lead to feeling good about oneself. The former is frequently referred to as extrinsic motivation since the anticipated rewards and sanctions are the result of actions by external agents. In the second case, performance is instrumental to rewards which are intangible and attributable to processes within the human brain. The distinction is similar to one made by Lewin who contrasted “own forces” with “induced forces.”

In the original formulation of expectancy theory, I treated those two sources of motivation as functionally equivalent and interchangeable. The source of the motivation, intrinsic or extrinsic, was irrelevant to work performance. Since the publication of *Work and Motivation*, several streams of research have pointed to the criticality of separating intrinsic and extrinsic motivation.

The first of these pertains to the unstable relationship between intrinsic and extrinsic motivation. Research in the laboratory by Edward L. Deci and by others shows that basing compensation on performance of a task may increase performance in the short run but, over time, decreases intrinsic motivation. Deci has reviewed more than a hundred studies and has concluded that tangible rewards, such as compensation, tend to have a substantially negative effect on the strength of a person’s willingness to work hard when the rewards are no longer present.

Note that it is not the receipt of the money that does the damage. The cause lies in its contingent nature; in other words, the fact that it is linked to the level of performance. Monetary compensation changes the meaning of the task from something which is done for personal gratification to something which is done for financial gain. While compensating people for something they enjoy may increase performance, it does so at the expense of the desire to do it “for its own sake.”

It should be emphasized that intrinsic motivation is not solely the result of interesting work. It may also reflect the role that work plays in one’s self concept and identity. Deci uses the term autonomous motivation, rather than intrinsic motivation, to emphasize this broader conception. For example, extrinsic rewards and punishments may become internalized over time and serve to motivate performance independently of the reward contingencies in the immediate environment. Thus, one may work diligently at one’s job because it is the “right” thing to do or because performance influences one’s “self-worth.”

A second reason for distinguishing these two motivational sources is the evidence that each is best suited to different kinds of tasks. Teresa Amabile has studied creativity in a wide array of groups, ranging from artists and inventors to school children. She has concluded that financial rewards are more suited to repetitive, well-scripted, algorithmic tasks but are likely to reduce performance on tasks regarding creativity and heuristic processing.

In my most recent writings, I have modified the terminology that I had used in writing about expectancy theory. I now use the term *valence* to refer to intrinsic motivation and the term *instrumentality* to refer to extrinsic motivation. In the short run, the two combine in what seems to be an additive fashion, but over time, extrinsic motivation tends to erode its intrinsic counterpart. For the sake of simplicity, I have chosen to ignore this dynamic element in the following equation:

\[
\text{Force} = (\text{Valence} + \text{Instrumentality}) \times \text{Expectancy}
\]
Expectancy Theory

Importance

From this equation, one can identify three paths to increasing motivation to perform a task or job effectively: (a) basing rewards or sanctions on level of performance (instrumentality), (b) designing the work roles such that effective performance is intrinsically satisfying (valence), and (c) increasing the person’s belief that he or she is capable of performing effectively (expectancy). Interventions designed to strengthen expectancy will increase performance to the extent to which either or both valence or instrumentality is positive.

From a practical standpoint, one needs to understand the nature of these three interventions. Expectancy can be enhanced in several ways, including training, coaching, and modeling of effective behaviors. Instrumentality is a straightforward application of the original formulation of expectancy theory—identifying valued rewards and making them conditional on performance. But what about valence? Decomposing this construct constitutes the main challenge confronting a revised expectancy theory.

What is there about people, their work, and the interaction between the two that results in passion and dedication toward one’s work? Further, what can be done to create intrinsic motivation? Existing research suggests several promising directions.

Goal setting. The power of goal setting at work was first demonstrated by Alex Bavelas, one of Kurt Lewin’s colleagues. He met with groups of sewing machine operators in the management conference room in the Harwood Manufacturing Company. He asked each group if they would like to set a goal for higher production. In most cases, the group agreed, and they proceeded to make a group decision concerning the level of production that they hoped to reach and the length of time in which they would try to reach it. Groups that set goals increased production by an average of 18%.

Goal setting seems to offer much promise for performance management. An extensive study of performance appraisals at General Electric (GE) found that the single most important determinant of performance improvement following an appraisal interview was the setting of performance goals in the interview. An extensive program of research on the practical implications of goal setting is summarized by Locke and Latham.

Job design. Based on a study of accountants and engineers, Herzberg concluded that the content of a job played an exclusive role in motivating people to work. While his findings have been criticized on methodological grounds, subsequent research has supported his view that the way in which jobs are designed plays an important, although not exclusive, role in worker motivation.

J. Richard Hackman and Greg R. Oldham have identified five dimensions of jobs which are associated with their “motivating potential.” They are skill variety, task identity, task significance, autonomy, and feedback. They developed a measure called the Job Diagnostic Survey, which has been used to compare jobs in each of the five dimensions. It also serves to identify areas in which jobs might be restructured to increase employee motivation.

The five dimensions are conceptually related to Abraham Maslow’s self-esteem and self-actualization needs. These needs, which others have termed “growth needs,” sit at the top of Maslow’s needs hierarchy and are aroused only when biological and social needs have been satisfied. It follows that economic prosperity and stability of social institutions should make it more important to design jobs which utilize and develop one’s skills and abilities.

Connecting work to values. It has frequently been observed that people can be motivated to work not only by the tangible benefits to themselves but also by the opportunity to benefit others, the larger society, or the planet. This is manifest in the tireless, self-sacrificing work of those professionals who leave their careers to work in underdeveloped countries or in parts of the world struck by natural disaster. Charles Handy has argued for making these “legacy issues” an additional level on Maslow’s hierarchy of needs, sitting above self-actualization. Most researchers refer to them as values, that is, as, end states which acquire positive valence through their meaning in the larger culture.

James McGregor Burns has coined the term transformational leadership to refer to the process by which political leaders have changed institutions by appealing to values which are widely shared among the population. In recent years, the concept has been adapted by the private sector. Leaders are encouraged to motivate their organizations by appealing to a vision of the future which is exciting, promising, and honorable.
Clearly, the belief that one is part of an organization that is adding social value contributes to one’s feeling of self-esteem and increases the degree to which work is experienced as meaningful. It is probably less powerful as a motivating force than seeing that one’s personal effort has social value. Amy Wrzesniewski and J. E. Dutton have shown that this source of intrinsic motivation is dependent not only on the physical attributes of the job but also on the way in which it is “crafted” by the person. Job crafting has two components. One involves the way in which the employee frames the work that has been assigned. The classic example is that of the two bricklayers, one of whom sees the task as laying bricks, while the other views the task as building a great cathedral.

The second component of job crafting involves customizing one’s work to reflect one’s unique skills and personality. They have studied these two components of job crafting in many different jobs. For example, they observed a member of a hospital cleaning crew who “framed” his job as helping doctors and nurses care for the sick by providing a germ-free environment. In addition, he took on additional tasks which were not in the job description but which were consistent with both his sense of “self” and his “mission.”

In the complex world in which we now live, people are frequently insulated from the results of their labor. Teachers seldom contact their students after graduation, and workers in a manufacturing plant rarely have contact with users of the products which they manufacture. Grant has shown experimentally that work performance can be increased by strengthening the connection between employees and the beneficiaries of their work. In an imaginative set of experiments, he and others have shown large productivity increases by enabling an empathetic relationship with those who are affected by one’s labors. For example, people working in a call center seeking to raise scholarship money for worthy students increased their performance after brief contact with a prior scholarship recipient. Similarly, when radiologists were shown a photograph of the person whose imaging scan they were evaluating, they reported more empathy for their patients and did a more effective job of diagnosing their medical problems. These findings echo the original rationale for transformational leadership. When people can see their work or that of their organization as contributing to things they value, whether to specific persons or to societal benefit, the work acquires meaning and elicits more sustained effort. Whether the source of this sense of connection lies in the inspirational role of the leader or in the design of the work itself, the effects on the intrinsic motivation of employees and on the performance of their organizations can be considerable.

A century ago, the scientific management of Frederick Taylor and Frank and Lillian Gilbreth did much to dehumanize work and to destroy intrinsic motivation. To date, researchers studying ways of making jobs more intrinsically motivating have not developed technologies comparable to Taylor’s time and motivation study. But there are promising beginnings. One of the most promising of these is a job-crafting exercise developed by Wrzesniewski and her colleagues. It is aimed at helping workers to reorganize, restructure, and reframe their jobs, making them more engaging and fulfilling. It has proven helpful to workers in a wide variety of occupations in shaping how they conduct their jobs and how they think about themselves at work. A large-scale study using this exercise is now underway in a global technology company.

Groups and teams. Finally, we turn to what may be the most powerful source of intrinsic motivation—the small, cohesive work team. If the effort and energy that one puts into productive work can be increased by awareness of interdependencies with external clients and beneficiaries, it is likely that similar forces may emanate from relationships with coworkers.

Tightly knit, highly cohesive groups represent a two-edged sword. They can motivate people to strive for performance or to restrict output. The direction of the motivational force depends on the norms of the group. In the Hawthorne experiments, group-generated forces served to reduce performance in the bank wiring room and to increase it in the relay assembly room.

Over 50 years ago, Rensis Likert wrote an influential book outlining a motivational theory of management. In Likert’s view, organizations should comprise not a set of individuals but rather a set of groups. Managers would serve as a linking pin between groups at two organization levels. Likert’s theory also required those groups to have high-performance norms. But how were these norms to
be created? To answer this question, Likert turned to the work of Kurt Lewin on the motivational effects of democratic leadership style. Through participation in decision making, the goals of workers would become aligned with the goals of their organization.

While Likert never used the term team in his writings, his ideas were a harbinger of things to come. Within the last two decades, there has been a widespread movement toward the adoption of teams as the basic building blocks of organizations. Popularized by the success of the Japanese “quality circles,” high-performance work teams and self-managed work teams are becoming ubiquitous in organizations in both the public and private sectors. People identify with their teams and work hard to ensure its success. This phenomenon is easily observed on the children’s athletic field, where one’s worst nightmare is to “let one’s teammates down.” Similarly, those who have studied troops in battle have reported that great acts of bravery and dedication are typically caused by a desire to help and protect one’s “buddies.”

Final Reflection

Some may say that I have opened up a can of worms in attempting to incorporate intrinsic motivation as a separate driving force in the motivation to work. Certainly, the issues are complex. People’s enjoyment of the work they do is not as simple and straightforward as the mathematical equations in the earlier version of expectancy theory. But the phenomena surrounding intrinsic motivation are increasingly important to the practice of management in a world in which “knowledge work” is becoming paramount. In the last two decades, we have made considerable progress not only in understanding the process but also in identifying specific interventions that managers can make in tapping into this well-spring of energy. In this entry, I have described four promising avenues for increasing intrinsic motivation—goal setting, job design, connecting work to values, and creating work teams dedicated to high performance. They may not have identical effects on all people in all cultures, but all are a reasonable place to begin.

Victor H. Vroom

See also Empowerment; Goal-Setting Theory; High-Performing Teams; Participative Model of Decision Making; Theory X and Theory Y; Transformational Theory of Leadership

Further Readings


Experiential Learning Theory and Learning Styles

Management has used experiential learning theory (ELT) to describe the management process as a process of learning by managers, teams, and organizations for problem solving and decision making, entrepreneurial opportunity seeking, and strategy formulation. It has also had a major influence on the design and conduct of educational programs in management training and development and formal management education. Experiential learning theory (ELT) practitioners seek to pass on the legacy of those 20th-century scholars—notably William James, John Dewey, Kurt Lewin, Jean Piaget, Lev Vygotsky, Carl Jung, Paulo Freire, Carl Rogers, and others—who placed experience at the center of the learning process, envisioning an educational system that was learner-centered. ELT is a dynamic view of learning based on a learning cycle driven by the resolution of the dual dialectics of action–reflection and experience–abstraction. It is a holistic theory that defines learning as the major...
process of human adaptation involving the whole person. This entry is a description of the basic concepts of ELT, the learning cycle and learning style, and how these concepts are used in management today.

Fundamentals

David Kolb created ELT to unify the contributions and insights of these scholars into an explicit and coherent framework based both on the common perspectives they share and the unique contributions they have made to our understanding of experiential learning. ELT integrates the works of the foundational experiential learning scholars around six propositions that they all share:

1. Learning is best conceived as a process, not in terms of outcomes.
2. All learning is relearning.
3. Learning requires the resolution of conflicts between dialectically opposed modes of adaptation to the world.
4. Learning is a holistic process of adaptation.
5. Learning results from synergetic transactions between the person and the environment.
6. Learning is the process of creating knowledge.

The Cycle of Experiential Learning

In ELT, learning is defined as the process whereby knowledge is created through the transformation of experience. Knowledge results from the combination of grasping and transforming experience. The ELT model portrays two dialectically related modes of grasping experience—concrete experience (CE) and abstract conceptualization (AC)—and two dialectically related modes of transforming experience—reflective observation (RO) and active experimentation (AE). Experiential learning is a process of constructing knowledge that involves a creative tension among the four learning modes that is responsive to contextual demands. This process is portrayed as an idealized learning cycle or spiral where the learner “touches all the bases”—experiencing, reflecting, thinking, and acting—in a recursive process that is sensitive to the learning situation and what is being learned. Immediate or concrete experiences are the basis for observations and reflections. These reflections are assimilated and distilled into abstract concepts from which new implications for action can be drawn. These implications can be actively tested and serve as guides in creating new experiences.

Experiential Learning Styles

Kolb’s learning styles, describing how individuals learn from experience, are defined by an individual’s relative preference for the four modes of the learning cycle described in experiential learning theory—concrete experience, reflective observation, abstract conceptualization, and active experimentation. These learning styles can be assessed by the Kolb Learning Style Inventory (KLSI). Learning style describes the unique ways that individuals spiral through the learning cycle based on their preference for the four different learning modes—CE, RO, AC, and AE. Because of our genetic makeup, our particular life experiences, and the demands of our present environment, we develop a preferred way of choosing among these four learning modes. We resolve the conflict between being concrete or abstract and between being active or reflective in patterned, characteristic ways. ELT argues that learning style is not a psychological trait but a dynamic state. This dynamic state arises from an individual’s preferential resolution of the dual dialectics of experiencing–conceptualizing and acting–reflecting. Stable and enduring patterns of learning style arise from consistent patterns of transaction between the individual and his or her environment. The way we process the possibilities of each new emerging event determines the range of choices and decisions we see. The choices and decisions we make to some extent determine the events we live through, and these events influence our future choices. Thus, people create themselves through the choice of actual occasions they live through. ELT posits that learning is the major determinant of human development, and how individuals learn shapes the course of their personal development. Previous research has shown that learning styles are influenced by culture, personality type, educational specialization, career choice, and current job role and tasks.
Much of the research on ELT has focused on the concept of learning style using the KLSI to assess individual learning styles. While individuals who took the KLSI show many different patterns of scores based on their relative preferences for the four learning modes, years of research on the learning styles of many thousands of individuals have led to the identification of nine types of learning style, each of which is characterized by a specific ability. These learning styles can be systematically arranged around the learning cycle in a grid (as seen in Figure 1).

ELT was developed following Kurt Lewin’s plan for the creation of scientific knowledge by conceptualizing phenomena through formal, explicit, testable theory that (a) permits the treatment of both the qualitative and quantitative aspects of phenomena in a single system, (b) adequately represents the causal attributes of phenomena, (c) facilitates the measurement of these attributes, and (d) allows both generalization to universal laws and concrete treatment of the individual case. Since the first statement in 1971, there have been many studies using ELT to advance the theory and practice of experiential learning. The current Experiential Learning Theory Bibliography includes over 3,000 entries. Since ELT is a holistic theory of learning that identifies learning style differences among different academic specialties, it is not surprising to see that ELT research is highly interdisciplinary, addressing learning and educational issues in many fields, notably management, education, information science, psychology, medicine, nursing, accounting, and law. There are research studies from every region of the world, with many contributions coming from the United States, Canada, Brazil, the United Kingdom, China, India, Australia, Japan, Norway, Finland, Sweden, the Netherlands, and Thailand. These studies support the cross-cultural validity of ELT and the KLSI and also support practical applicability across cultures. The KLSI has been translated into many languages including, English,

Figure 1  The Nine Learning Style Types

Source: Author.
Spanish, French, Portuguese, Arabic, Russian, Dutch, German, Swedish, Chinese, Romanian, Persian, Thai, and Japanese.

ELT offers a way to study management as a learning process that is dynamic and holistic, operating at the level of the individual, the team, and the organization. When learning is defined holistically as the basic process of human adaptation, it subsumes more specialized managerial processes, such as entrepreneurial learning, strategy formulation, creativity, problem solving, and decision making and leadership. In ELT, these specialized management processes tend to emphasize particular phases of the learning cycle. Entrepreneurial learning tends to emphasize the initiating phase of the learning cycle while strategy formulation tends to emphasize the analyzing phase. Creativity emphasizes the imagining phases, while problem solving and decision making emphasize deciding. Barbara Carlsson and colleagues found that leadership style tends to be related to learning style but is most effective when it moves through the learning cycle and is adaptive to task demands. All of these processes are enhanced when the full cycle of learning is followed. For example, Andrew C. Corbett found that in the opportunity identification phase of the entrepreneurial process, an abstract orientation is helpful in addition to an active orientation. Similarly, Anna B. Adams and associates found that diverse teams that include members with learning styles around the learning cycle tend to be more effective.

David A. Kolb

See also Action Learning; Double Loop Learning; Entrepreneurial Cognition; Intuitive Decision Making; Learning Organization; Organizational Learning; Psychological Type and Problem-Solving Styles; Stages of Creativity; Tacit Knowledge

Further Readings
FAIRNESS THEORY

Specifically, the theory posits that actions (and someone who has engaged in them, such as decision makers when they choose what to do) seem unfair when people feel that those actions would have been better if the relevant person could have and should have acted differently. This entry provides an introduction to the theory in terms of an illustration about a workplace interaction between a supervisor and her subordinate.

Fundamentals

Fairness theory analyzes why B might hold A accountable for unfair treatment. For example, suppose Alice, Ben’s supervisor, publicly ridicules him. If Ben perceives this ridicule as the undesired result of an improper action over which Alice had control, he holds her accountable for unfairness (blaming her for mistreatment he didn’t deserve). Fairness theory conceptualizes Ben’s reactions in terms of counterfactual (contrary to fact) processing. Ben’s actual situation seems unfair compared with a fair treatment counterfactual. (A worse counterfactual, on the other hand, would make the actual situation seem better.)

Something can seem undesirable compared to a desirable Would counterfactual. Remembering last year’s Christmas bonus of $100, for example, makes this year’s $50 seem more unfavorable than if last year’s had been $25. Indeed, if the counterfactual (alternatively imaginable) condition seems more favorable in certain kinds of ways (e.g., for health and well-being), the more negative-seeming actual condition might even be perceived as harmful. Harm in that sense comes from a contrasting mental representation with the absence of harm. The greater the discrepancy between an actual state and a counterfactual one that would feel better, the greater the ease with which the actual state has the potential for feeling harmful—and the more harmful it can feel. The extent to which Ben feels harmed, for example, depends on how the presence of ridicule feels to him relative to its absence. Thus, if Ben has never experienced ridicule before and, in fact, is accustomed to being treated at the very least with politeness and frequently with high praise in a wide variety of contexts, then ridicule will seem to him equivalent to a considerable amount of harm. If Ben is used to being criticized sarcastically some of the time, then ridicule from Alice might seem unfavorable only to somewhat of a degree.

The Would-based contrast between feeling good and not feeling good, however, is by itself insufficient as grounds to hold someone accountable for unfair treatment. For example, conditions might seem unfavorable but warranted when losses stem from reap-what-you-sew personal choices (e.g., money lost from bets at Las Vegas). Under such conditions the accountability rests with the person who experiences the unfavorable feelings rather than with anyone else. There are also unfavorable conditions for which no one is accountable, such as those caused by genetic birth defects. Accountable as blame for unfairness will instead require particular versions of Could and Should counterfactuals.
When a _Could_ counterfactual contributes to the possibility that someone might be held accountable for unfair treatment, the language of perpetrator and victim begins to have the potential for becoming applicable (although it will ultimately depend on an additional counterfactual regarding norms of action). The _Would_ counterfactual of a victim involves perceptions of unfavorable conditions. Could counterfactuals refer to perceiving someone as a person whose actions could account for variations in the kinds of conditions that the victim might experience. For example, Alice’s actions can vary the conditions that Ben experiences at work because she is his supervisor. Ben perceives that she has a choice about how to treat him and that ridicule is only one of various ways she could treat him. She is in a position to exercise discretion over the courses of action she will take in supervising him. People who have the potential for being perceived as perpetrators, therefore, are those who could have acted so as to prevent the conditions that someone perceives as being unfavorable; other courses of action were available, and at least one of the alternatively available choices would have not led to those conditions. Put another way, the potential victim has one of those alternative choices as a counterfactual action that contrasts with the perpetrator’s actual choice.

Finally, the _Should_ counterfactual in unfair treatment cases also refers to alternative courses of action but applies normative standards of right and wrong to evaluate them. Just because one person is capable of hitting another does not make it seem like appropriate conduct. In a boxing ring, however, it might very well seem fine—although perhaps not to people who consider the sport too violent. Opponents of abortion make use of _Should_ counterfactuals by denying the moral equivalence of having versus not having an abortion, and anti-abortion billboard campaigns are meant to make very clear (and salient) which of the pregnancy alternatives is the morally superior course of action (viz., bringing a child to full term). On a less contentious level, Ben might apply certain kinds of standards of right and wrong regarding the conduct of supervisors; about ridiculing versus not ridiculing, in particular, he might find the latter the more appropriate. The fairness theory combination of _Would_, _Could_, and _Should_ concomitant with assigning accountability for unfair treatment in Ben’s case, then, might look like the following: (a) Being ridiculed seems very unfavorable to him (he can easily think of feedback from supervisors that he _Would_ find more desirable), (b) he is convinced that the ridicule from Alice need not have been given in public (e.g., her access to e-mail comes to his mind as a way that she _Could_ have conveyed feedback privately), and (c) he considers public ridicule to be an unacceptably rude form of conduct when delivered by a supervisor (the appropriate norms of workplace interaction dictate that a greater level of civility _Should_ have been exercised). Altering any of these three counterfactuals makes perceptions of blameworthy treatment less likely (e.g., Ben might instead think that it is acceptable for supervisors to give subordinates public ridicule).

The same counterfactuals apply whether _Would_ is distributive, procedural, or interactional, and counterfactual can occur simultaneously or in any order. Also, counterfactuals can have an influence without conscious awareness. When something seems hot to you, for example, you probably do not have consciously in mind a specific level of cold that you are using for comparison to have a “measure” of _how much_ heat (or what level) you are feeling, yet that is still a _Would_ perception.

Fairness theory does not entail that counterfactuals be conscious or in a specific sequence, and it accommodates interactional, distributive, and procedural justice based on the subject of three different _Would_ counterfactuals. Ben’s ridicule illustrates an _interactional injustice_ _Would_ (i.e., criticism delivered with more respect for Ben’s dignity is the counterfactual). Ben might instead (or in addition) experience some dissatisfaction about the size of a bonus because rising gas prices make salient how much better off he would be if the bonus were larger, creating the potential for _distributive injustice_ (e.g., if he also believes that the cost of driving _Should_ have been a consideration and that bigger bonuses _Could_ have been awarded because the organization’s profits made that quite feasible). Similarly, perhaps Ben experiences some dissatisfaction about the means whereby a decision was made because he realizes how much better he _Would_ have felt if his opinion had been sought (perceived _procedural injustice_ if he thinks he _Could_ and _Should_ have been asked for his opinion).

Modern managers can and should use fairness theory to address issues, challenges, and opportunities they face. In particular, they need to be aware of...
how circumstances can change (a) what employees perceive would be more desirable than what the organization provides or is doing, (b) what employees perceive that management could be providing or doing, and (c) what management should be providing or doing. When a counterfactual puts existing organizational conditions in a negative light (e.g., employees come to perceive that something could be done differently), management can consider ways to (a) provide alternative counterfactuals (e.g., show that something actually could not be done otherwise) or (b) align organizational practices with prominent counterfactuals (e.g., provide larger rank-and-file bonuses out of substantial profits when gas prices rise; not provide large bonuses to top management when laying off employees).

Robert Folger

See also Equity Theory; Norms Theory; Principled Negotiation; Psychological Contract Theory; Social Exchange Theory

Further Readings


**Firm Growth**

Edith Penrose has had a significant influence on the field of management. This influence occurred primarily through the ideas contained in her 1959 book, *The Theory of the Growth of the Firm*. A recent query in Google Scholar found more than 13,000 citations to the text. The book was written because of her frustration with neoclassical economics’ focus on static equilibrium and treatment of the firm as a black box. Although her treatise was addressed to economists, later (to her surprise) it found widest appeal among management scholars. This entry summarizes Penrose’s theory of the growth of the firm and identifies its contribution to the field of management.

**Fundamentals**

Penrose’s book analyzed different aspects of firm growth and addressed questions such as these: Why do firms grow? What factors explain the growth trajectories of firms? Is there a limit to growth? What factors determine the rate of growth? What are the different mechanisms of growth? Thus, *Theory of the Growth of the Firm* can be viewed as a collection of arguments that explain how and why firms grow and what factors constrain their growth.

Penrose viewed a firm as a bundle of resources. She argued that because of the indivisibility of resources, they could not be procured in continuous increments. This lumpiness of resources led to availability of excess resources within the firm that provided the inducement to growth. She noted that resources by themselves were useless; it was the way the resources were combined—or in her words, “the services generated by the resource”—that created value for the firm. Among the resources she identified as critical to firm growth was the management and administrative structure of the firm. According to Penrose, it was the role of management to choreograph the combination of resources and the services...
derived from them. Technical and managerial economies, and learning (that increased the management’s stock of knowledge), provided additional sources of growth.

It was the different bundles of resources that firms possessed and the different ways that their management combined them that led to heterogeneity among firms. The trajectory of the growth was constrained by the firm’s resource inheritance or legacy. As examples, Penrose discussed how research capabilities could create brand awareness and relationship with customers that increased sales of existing products; thus, the two distinct capabilities would produce two different growth trajectories. According to her, the rate of growth would be a function of the ratio of the resources available for expansion to the resources required per unit of expansion. The adverse impact on growth rate of firms because of the cost of developing tacit managerial resources is now known as the Penrose effect. However, Penrose did address how lack of resources (such as experienced management and labor) could be overcome through acquisitions.

While Penrose focused on the “insides” of the firm in developing her theory of growth, she did not dismiss the role of the external environment in firm growth. This acknowledgment of the role of the environment was evident in her discussion of the roles of economic growth rate and competition on firm growth. She viewed the environment not as an objective fact but as the subjective image in the mind of the entrepreneur. Penrose noted that entrepreneurs operated in environments characterized by uncertainties; therefore, their beliefs about the environment became the basis for their actions. While the resources governed the growth trajectory, it was entrepreneurship that provided the motive.

Penrose’s book did not have an immediate impact on the field of management. It was several decades later, starting with the publication of Birger Wernerfelt’s article in Strategic Management Journal in 1984 that the field of strategic management vigorously adopted Penrose’s framework. Strategic management is a relatively young field within the management discipline. Academic research in strategic management was initially influenced by the industrial organization (IO) economics perspective. This perspective led to a focus on the external environment and, more specifically, on the structure of the industry in which the firm was embedded. However, many scholars within strategic management felt that the IO perspective offered too aggregate a level of analysis and that it neither explained the heterogeneity among firms within an industry nor offered an understanding of firm dynamics or growth. These critiques and gaps led scholars to embrace Penrose’s work. This alternative approach based on ideas contained in Penrose’s book came to be known as the resource-based view (RBV) of the firm. The RBV became an extremely powerful and popular (based on number of publications and dissertations) framework within strategic management research in the 1990s and 2000s and also spilled over into the broader discipline of management. In the short space of this article, it is impossible to list all the scholars who have refined, developed, and applied Penrose’s theory of firm growth to management. However, in addition to Wernerfelt, Jay Barney, Joseph Mahoney, and Margaret Peteraf played critical roles in the development of Penrose’s theory and articulating its relevance to management.

In 2001, as the RBV was gaining eminence as a powerful framework to understand firm behavior and competitive advantage, Richard Priem and John Butler published a sharp critique of the RBV in a leading management publication, the Academy of Management Review. They asserted that the RBV was based on tautological argumentation, making it difficult to satisfy one of Karl Popper’s criteria for a good theory: falsification. Perhaps in anticipation of such critiques, Penrose had acknowledged that testing her theory would be difficult. Despite the critiques, the RBV and its derivative frameworks continue to play important roles in management research and practice. The RBV framework should allow managers to assess their resource structure within the context of their environment to make critical strategic decisions about resource acquisition, divestment, development of core competencies, and outsourcing.

Anil Nair

See also Business Policy and Corporate Strategy; Competitive Advantage; Core Competence; Diversification Strategy; Dynamic Capabilities; Knowledge-Based View of the Firm; Resource-Based View of the Firm; Strategic Alliances; Strategic Groups
Further Readings


**FIRST-MOVER ADVANTAGES AND DISADVANTAGES**

The first-mover advantage (FMA) is a metaphor that is often invoked to summarize a variety of factors that may contribute to the positive economic performance of early entrants in new or substantially reorganized markets and industries. Because of the commingling of multiple theoretical mechanisms (that may generate or obfuscate an advantage for pioneering firms) under the same umbrella term, the conceptual utility of FMA as a tool for theory building and analysis is unclear. Nevertheless, the metaphor is widely popular among managers and applied strategy researchers, so it is useful to sort the arguments it summarizes even if they are divergent and sometimes contradictory. In this entry, we trace the conceptual origin of the arguments that suggest both advantages and disadvantages for first movers.

**Fundamentals**

In their 1988 seminal paper on the topic, Marvin B. Lieberman and David B. Montgomery effectively systematized the key drivers of the first-mover advantage: First, economies of learning and experience along with research and development (R & D) investments can produce a technology advantage if the pertinent knowledge can be kept proprietary. Second, first movers may be able to deter entry by acquiring input factors at lower costs than subsequent entrants, by preemptive investment in production capacity, or by positioning in geographic or product markets with limited-scale potential where minimum efficient scale equals market size. Third, timing of entry may afford first movers to develop brand loyalty, which increases switching costs and decreases search costs for consumers. At the same time, first movers may well be at a disadvantage relative to later entrants because of free-riding effects, the emergence of a dominant design and reduced technological uncertainty, abrupt shifts in technology, or lock-in effects arising from early investments in specific assets. In short, there are a good number of reasons to speculate that first movers may succeed or fail as a function of threats and opportunities endemic in time of entry.

Yet rigorous analysis of FMA is greatly constrained by two common biases: First, “success/survivor bias” often leads analysts to select on the dependent variable, in fact making it invariable. Since many first movers may have expeditiously fallen victim to the disadvantages inherent in the first-mover position, they are simply not considered in the risk set. FMA studies thus often are de facto studies of the first successful firms in an industry where success may have little or nothing to do with time of entry; many firms may have entered and failed a market prior to the first successful firm’s entry. For example, such logical fallacy often permeates misperceptions of Ford and IBM as first movers in the automobile or personal computer market, respectively. Both firms were the first to succeed in their markets, but neither was a first mover, although they each are the earliest surviving entrant. A second source of bias is “left-censoring” in data collection, which stems from the difficulty in obtaining data dating to the dawn of an industry when many short-lived competitors enter and fail quickly leaving little or no record of their existence. Thus, even if survivor
bias is eliminated, the earliest point in time at which record-keeping begins in many industries coincides with the time of institutional visibility, which is typically years later than the entry of first movers. This leads second movers (successful or not) to be mistakenly identified as first movers and again produces flawed causal inferences.

Perhaps the greatest difficulty with garnering theoretical traction from the FMA metaphor is that it is unclear to what extent the purported mechanisms causing the effect are peculiar to time of entry versus pertinent to a specific market structure such as monopoly equilibrium. Advantages stemming from experience, R & D, preemptive investments, brand loyalty, and the like are all easier to realize by a firm that does not face any competitors, at least temporarily, but it is unclear how time of entry itself directly relates to any of these. Note that since a first mover remains the only incumbent until subsequent entry, market concentration is by definition at its global maximum. Would a firm that finds itself in such a monopoly position in the later stages of industry evolution not benefit as much as a first mover would?

Attributing the success of (some) early entrants solely to their timing of industry entry may be an oversight. Potential advantages available to early entrants may be only an indirect function of early entry and stem from a firm’s ability either to benefit from scale advantage or to extend its prior experience to a new market. The key to a first-mover’s success then lays not in being the first to market per se but in the chance to leverage a relevant capability or an experience (often generating an R & D advantage leading to scale economies). That this is easier to accomplish in an empty market is a facilitating condition that does not in itself constitute an FMA. Predictably, empirical research that supports FMA emphasizes the benefits of either large-scale or prior experience, neither of which is directly driven by timing of entry.

While the purported advantages of the first-mover position may not be unique to first movers, its disadvantages certainly appear to be. Technological and market uncertainties in an underdeveloped market are directly tied to timing of entry and may obscure opportunities and increase failure for new entrants. When the first movers are de novo firms (i.e., without prior experience), they are particularly sensitive to environmental uncertainty and subject to imprinting. When a social audience does not identify or recognize new organizations as categorically distinct and has no set expectations against which to evaluate their activities, it is unlikely to transact with these organizations despite the merits or appeal of their offerings or the size of latent demand for them. And this “legitimacy vacuum” effect, as Stanislav Dobrev and Aleksios Gotsopoulos term it, is likely to produce a lasting disadvantage for first movers that are new start-ups rather than diversifying entrants.

Studies that focus on the uncertainty associated with entering an unknown, underdeveloped market (in spite of how large its potential may be) unsurprisingly predict FMAs. The key question is, Why are first movers in some industries but not in others able to offset the uncertainty disadvantage by leveraging their own experience and by reaching minimum efficient scale faster than later entrants? The answer to this question requires considerations exceeding the explanation of any single theory. The time it takes for a new organizational form to become taken for granted matters, as does the proportion of new industry entrants who are lateral entrants less exposed to imprinting processes. Or the economics of the business may be such that breaking through scale thresholds requires time to build distribution channels or to leverage positive externalities. And of course, entrepreneurial risk-taking behavior leads to seizing uncertain opportunities in which sheer luck (or the random, path-dependent component of evolution) rewards some entrants at the expense of others. Studies seeking to adjudicate whether first movers benefit or suffer from their timing of entry provide conflicting results. Attempting to solve this inconsistency in simple “advantage versus disadvantage” terms may not be productive. Instead, as Fernando Suarez and Gianvito Lanzolla suggest, it may be more useful to articulate and develop the mechanisms that operate concurrently for new firms in new industries and emphasize the conditions under which the advantages may overwhelm the disadvantages and vice versa.

As Lieberman and Montgomery (1988) admit, “Profits earned by first-movers are fundamentally attributable to proficiency and luck, rather than ‘pioneering’ per se. But . . . it is often exceedingly difficult to distinguish between proficiency and luck, particularly at the stage where first-mover opportunities are generated. . . . We leave this difficult
problem to venture capitalists and extremely ambitious empirical researchers” (p. 49). It seems wise to strongly favor the latter.

Stanislav Dobrev

See also Entrepreneurial Opportunities; Environmental Uncertainty; Firm Growth; Neo-Institutional Theory; Organizational Ecology; Organizational Learning; Organizational Structure and Design; Technology and Interdependence/Uncertainty

Further Readings


FORCE FIELD ANALYSIS AND MODEL OF PLANNED CHANGE

Kurt Lewin’s theory of force field analysis and planned change provides integrated models of management research to enable individual and group behavioral dynamics that enable organizational change toward an intended direction. Force field analysis is a process of organizational intervention that identifies driving influences for and against change. It can be applied to different stages of planned change and conflict resolution. Planned change is an alteration in the form, quality, characteristics, or state of an entity over a period of time, whether the entity is an individual, group, organization, or community. The following discussion traces (a) the origins of the two interrelated concepts and presents an outline of their key processes, (b) the conceptual and practical applications of the two ideas, and (c) their subsequent impact in the discipline of management. Based on the origin of field theory, planned change and force field analysis have enjoyed renewed significance with emerging complexity theories that consider organizations as dynamic, nonlinear, chaotic systems.

Fundamentals

Force Field Analysis

Force field analysis is anchored in field theory developed by Kurt Lewin in the 1940s. The significance of force field analysis lies in its practical application with a democratic-participative approach for collective decision making and action planning that fundamentally contradicted and shifted the prevailing traditional view of management as the ultimate authority over knowledge and decision making. Lewin’s theoretical contribution referred to a field as the composition of influencing forces and symbolic interactions that structure behaviors in social groups and individual actions.

The notion of force is something that propels or hinders movement from one region of a life space to another. On one hand, forces that arise from within are “own forces,” which encompass values, thoughts, needs, feelings, beliefs, and any other factors embedded in one’s internal composition or within a group’s norms and behaviors. On the other hand, “induced forces” arise from the external environment, which include people, events, things, context, and other factors.

Different forces have varying rates of change in their strength to move toward or away from the intended direction or goal. An important heuristic is that proximity to a region of forces is positively related to the strength of the forces’ influence. This means that the closer one is to a set of own forces
and induced forces, their influences will be stronger in moving toward a particular direction. As an example, to generate induced forces for commitment to customer service among executive ranks, they need to experience the customer service firsthand, as a customer or as an employee, in order to be influenced by induced forces to enable much more rapid changes for improving customer service.

According to Lewin, a field is conceptualized as a space with lines of force. This could be a composition of positive valences that makes up converging forces toward a region or alternatively, a composition of negative valences that makes up diverging forces. This conceptual definition has had relevance to disciplines beyond management to subjects such as sociology, psychology, and even physics. The importance of the field idea centers on being able to map the complexities and dynamics of the forces that encompass human behavior. Changes of the forces in a field lead to changes in social behaviors that then provide feedback to the system in a mutually interdependent fashion. This means there is a quasi-stationary equilibrium as a field is in a constant state of adaptation.

At any point in time, a force field analysis may be employed as a practical application of field theory. A force field analysis involves collaboration preferably among diverse stakeholders to represent the range of perspectives in an organizational system. The collaboration involves creating a diagram of different forces in a planned change. The process starts out with a vertical line drawn in the middle to represent the planned change. On one side, a list of key forces driving change has arrows directed toward the vertical line and on the opposite side of the line, forces against or resisting the change with arrows also directed toward the vertical line but in an opposing direction. The length and weight of the arrow sometimes vary to show the different intensity or significance of a force. Both own and induced forces would be represented in the collective diagram. As a result, the diagram from a force field analysis illustrates key forces at play, both in direction and magnitude, in planned change.

**Planned Change**

For planned change to take place, the driving forces must be greater than the resisting forces. Lewin developed the mathematical formula for behavioral change as a function of the state of a field over time—\( \frac{dx}{dt} \) where \( x \) represents changes in the organization and \( t \) represents a specific time period. During the late 1980s, David Gleicher developed a change formula known as \( dvf > r \) where \( d \) is dissatisfaction with the status quo, \( v \) is vision for a positive alternative future state, and \( f \) is first steps toward the future vision, and they must be greater than \( r \), which is resistance to change. The process of a force field analysis diagrams the different forces of dissatisfaction, vision, and resistance in planned-change activities in order to identify first steps to increase the forces for change over resistance to change. The collective engagement for a force field analysis is considered essential to the process of problem solving and conflict resolutions in order to move forward with a planned-change agenda.

In conjunction with force field analysis, Lewin also outlined a three-stage theory of managing planned change: unfreezing, movement, and refreezing. First, the unfreezing stage is recognizing and generating a degree of urgency for change. This may result from an internal source such as a leadership decision to change strategic direction and/or an external source such as a sudden change in economic climate. The need for change is made explicit in the unfreezing stage. Second, the movement stage is the deployment of intervention activities for shifting toward the new, preferred, and intended state. Interventions are intentionally designed organization development activities that may focus on shifting the trajectory of the organizational system, subunits, and/or individuals. Professional coaching, training and development, and organizational restructuring are examples of interventions. Last, the refreezing stage is the stabilizing of the new state. After a change alters the prior state, institutionalizing the new state may take place with reinforcements such as new policies, practices, and/or procedures. Planned change is a process that often refers to an organizational level of analysis, but it is also relevant to the individual and group level.

**Evolution**

Field theory established an important foundation for management research on different levels of analysis such as general and industry environments of organizations and culture, climate, and structure at the organizational level. These levels of analysis give rise to induced forces that are external to an organization's environment. Common induced forces for
organizations today include technological innovations, globalization, lifestyle changes, competition, government regulations, and economic fluctuations. For example, economic recessionary induced forces on an organization require adaptation that may involve replacing low-skilled labor with technology or outsourcing or closing of departments. The creation of organizational culture, climate, visions, goals, and values can be attributed to own forces arising from leadership in an organization. Each of these own forces, including leadership, had a rapid growth of management research attention starting in the 1960s. Most of the contemporary developments of these management topics have lost the trail of their research origins to the seminal influences of field theory.

An important caveat in the evolution of field theory is to recognize that (a) fields are embedded in the context of broader forces of fields at different levels of analysis and (b) there are reciprocal dynamics between forces arising from the different fields. At the individual level of analysis, the own forces arise from within a leaders’ style, beliefs, values, and worldview, whereas their induced forces come from the both the group and organizational fields. At the group level of analysis, the own forces arise from within the group field, and induced forces originate outside the group at the organizational level and beyond organizational boundaries. The parallel continues for the organizational level too. Field theory contributed significantly to separating the levels of analysis for rapid growth in both management research and education, but more recently, there is increasing recognition for integrated multilevel research and education to address the integrated complexities of contemporary organizational issues.

Whether explicitly or implicitly acknowledged, Lewin’s planned change model has had far-reaching influence and impact as a cornerstone for the discipline of management and its related fields. Reflections of the underlying conceptual foundation can be identified in relatively young fields such as strategic management, organizational development, action research, change management, decision sciences, problem solving, and a rapidly emerging practice of professional leadership coaching. Furthermore, specific aspects of planned change attracted significant attention for extensive research. They include topics such as goal setting, decision making, organizational identity, conflict management, strategic planning, SWOT analysis, motivation theories, organizational learning, training and development, group dynamics and teams, leadership, business communication, and so forth.

Andrew H. Van de Ven and Marshall Scott Poole identified planned change as a teleology type of organizational change. They compared teleology in a two-by-two matrix with three other types of organizational change, which were evolutionary, dialectic, and life cycle changes. The two dimensions were unit of change from single to multiple entities and mode of change that spanned prescribed to constructive. Planned change, or teleology, focuses on a single entity and a constructive mode. Another conceptualization of planned change examined content of change and intervention where episodic change in formal structure employed command interventions, change in beliefs employed teaching, change in work processes employed engineering, and change in social relationships employed socializing.

Subsequently, further elaborations of the three stages of planned change involve a recurring sequence of goal setting, implementation, evaluation and feedback, and revisions to the end state. Awareness of significant opportunities, threats, or problems often prompts people to initiate effort and energy for planned change, which relates to the earlier discussion about dissatisfaction in the change formula. Increasing awareness and goal setting make up the first stage of unfreezing in planned change, which relates to a vision of the future. The engagement of key stakeholders to socially construct the preferred future or end state with goal setting is an important first step in the planned-change process. Then implementation with the related actions for organizational change and leadership development form the second stage of movement. The particular interventions for change may involve organizational learning to integrate and adapt with new technology, restructuring organization, team development, dealing with resistance and conflict management, and many other related action items. Evaluation, feedback, revisions, and institutionalization establish the new state at the refreezing stage. The advent of total quality management, kaizen, balanced scorecard or dashboards, and related metric monitoring systems for performance improvement became significant for the refreezing stage of planned change.
Importance

From a practical perspective, planned change and force field analysis have an integrated, symbiotic relationship. Force field analysis surfaces qualitative data to support planned change. Significant theoretical developments advanced with planned change in both depth and breadth, whereas force field analysis is more of a practitioner tool. Different types of planned change include contrasting revolutionary change for resolving organizational crisis with evolutionary change for incremental growth and how the two alternate between one another. Another development of planned change can also be found in strategy with intended and realized strategy in comparison with emergent strategy. Intended strategy refers to a desired future direction, and a realized strategy is what strategic change actually unfolds. Between the two is an emergent strategy that may cause a deviation from what was intended to lead to the realized strategy. Recent organization change also identified a typology of planned change as transformational versus incremental change.

In addition to classifying planned change in terms of their magnitude and complexities, the origins and directions of planned change are important developments that started with a primarily top-down management approach. Today, the sources for planned change can be identified from multiple directions, including bottom-up management or externally stimulated from a variety of induced forces. Regardless of the origin and direction, a force field analysis can be integral to a change process.

Force field analysis may be used by managers at the unfreezing stage to conduct an organizational diagnosis and achieve a shared understanding of the existing dynamics for and against the planned-change initiatives. The unfreezing stage deals with multiple perspectives from different stakeholders in shared situations or conflicted issues. Two key tasks of the unfreezing stage are to generate a socially constructed common reality about the need and urgency for change. For example, a promising innovation can be considered as having potential for new market opportunities, whereas others may consider the same thing as being too risky or not within the scope of the organization’s market. At the movement stage, a force field analysis helps to identify significant forces against the intended change and to generate ideas for interventions that can help decrease and/or remove points of resistance. At the refreezing stage, managers practice and sustain the requisite organizational changes. If a force field analysis is used at this point, the focus would be on examining what institutionalizing practices are important and destabilizing forces against the organizational change initiative. The change in context for each stage presents different rationales and contexts for conducting a force field analysis.

A number of important research developments evolved from force field analysis and planned change. One centers on the notion of resistance to change, which unfolded in the late 1940s through the 1960s. Resistance research started from a systems level concept and then developed to a psychological one. Recent research continues with a psychological focus that addresses meaning making and the social construction of reality for change. Sonnenshein’s research study of meaning construction in strategic change implementation traced its influence to Lewin’s three-stage model of planned change. But an important development from the study identified the importance of managing paradoxical forces by balancing change dynamics with minimizing uncertainty during the unfreezing stage. Employees often embellish what an organizational change may mean that is in contrast to the intended meanings of managers. Hence, planned change involves multilayered meanings that exist at the same time and are not necessarily congruent with one another but are nevertheless important in an organization development and change process.

An array of factors is necessary to support successful planned-change processes; these include awareness of forces for change, shared goals and process, consensus decision making, real-time challenges to cognitive biases, and appropriate balance of de-escalating challenges. Research also identified the significance of pacing, sequencing, and linearity of change in radical transformations. Within organizational units, change unfolds in a nonlinear manner, which allows for participants’ need to develop common norms in collaborative relationships. Densely integrated into planned change is Lewin’s foundational impetus for multiple streams of management research in terms of both breadth and depth of related topics.

Research in planned change also led to the development of methods to evaluate the efficacy and impact of change initiatives. The earlier work
focused on alpha changes, which involve movement along an established measurement instrument; beta changes, which involve movement on a measurement instrument that has been recalibrated; and gamma changes, which involve assessing change with a redefinition of the domain for change. The latter may happen because the new reality no longer holds the former state. An example to illustrate can be found with shopping where customer service may be measured by how responsive employees are with smiles, professional dress, and friendliness, but the reality no longer exists in an Internet shopping environment. The continued attention to evaluating planned change is important as the research stream continues with a focus on practical organizational problems to align organizational resources on all levels to support its strategy. One of the most significant approaches for managers to assess planned change is with a balanced scorecard or dashboard, which often couples information technology in real time for strategic decision makers and change agents to access organizational outcomes on a range of metrics.

Finally, while earlier research separated levels and units of analysis, a recent theoretical as well as practical development examines the impact of change interventions on multiple levels that include organizational, workplace, individual, and organizational outcomes. These studies draw attention to the complexity of organizational change. Management researchers are in the early stages of grappling with multilevel theoretical and empirical research issues in which planned change would continue to be significant in the foreseeable future. Hence, the last research development discussed here is still emerging with the rise of different but related complexity theories—chaos theory, dissipative structures theory, and theory of complex adaptive systems. Three shared central concepts are the nature of chaos and order, operating at the “edge of chaos,” and order-generating rules. Complexity theories consider organizations as natural systems that are nonlinear, self-organizing, and order-generating rules operating at the edge of chaos. In sum, the significance of complexity theories for organizations renews attention and further increases the importance of heeding the insights of Lewin’s field theory and planned change model.

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See also Balanced Scorecard; Complexity Theory and Organizations; Goal-Setting Theory; Organizational Culture and Effectiveness; Organizational Development; Organizational Effectiveness; Participative Model of Decision Making; Strategic Decision Making

Further Readings

FUNCTIONS OF THE EXECUTIVE

Chester Barnard’s management theory can best be defined as focused on managing individuals in organizations rather on than managing organizations. His theory begins with the psychological need of
individuals to meet their goals and aspirations (large and small), their recognition of the inability to meet their goals by their own actions alone, and thus, the necessity to cooperate with others in order to function as they wish. His theoretical contributions are marked by his connecting these assumptions to the formation of organizations and the role of leaders in managing human organizations. Barnard’s work has remained significant for nearly a century, during which time scholars and leaders have studied and navigated organizational shifts around the globe. Barnard’s *Functions of the Executive*, published in 1938, is remarkable for its comprehensiveness and depth. He details ways in which the human need for association, grounded in biological and physical limitations, expresses itself in cooperative efforts; the dynamics of authority and power and under what conditions individuals follow direction from supervisors without questioning; the prime role of interpersonal and organizational communication; the influence of informal groups; the definition and role of morals in executive leadership and organizational purpose. Clearly, Barnard’s work, written during times of turbulence and change in American society, has strong applicability to the relentless global changes of the 21st century. This entry focuses attention on three fundamental factors of Barnard’s theory: (a) basic need of individuals for association to meet their goals and aspirations, (b) communication and human interaction, and (c) authority. Following the explication of these key factors, the importance of Barnard’s theory is presented.

**Fundamentals**

The continued relevance of Barnard’s work is grounded in the fact that he begins with the individual as his unit of analysis and then builds his theory of organizations around that framework. For Barnard, everything—including authority—starts with the individual at the bottom level rather than at an upper hierarchical level.

Barnard’s analysis is inclusive, a brilliant, consistent work that crafts an organizational and societal system based on the needs of individuals. He is often associated with Elton Mayo and others in the human relations movement, which stresses attention to the needs of individuals and groups in the workings and effectiveness of organizations. Barnard’s work clearly resonates with Mayo’s thinking. However, Barnard’s view of organizations was not based on an existing theory. As a keen observer of people in multiple settings and situations, his conceptualizations emerged from his vast and multifaceted experience dealing with people engaged in organizational/organized settings. These diverse settings represented a variety of institutional purposes from corporate profit to national security to relief to citizens hardest hit by the Great Depression. These direct experiences provided key data that informed Barnard’s thinking.

**Basic Need of Individuals for Association**

Barnard’s entire theoretical structure is based in understanding human beings as purposeful individuals with aspirations to improve their situations. Individuals have needs and goals that they cannot fulfill by themselves; human biological and physical limitations prevent them from doing as they would like. While these restrictions curb choices, choices are expanded through cooperation with others to meet desired ends.

Barnard posits in his pivotal work, *The Functions of the Executive*, that organizations begin with two or more people coordinating their efforts and joint action has a purpose. Thus, organizations are inherently cooperative systems. The need to cooperate provides incentives for individuals to forge cooperative relations with others. This is the basis for human action and achievement and is manifested in formal organizations as well as in informal groups (within and outside of organizations).

The initial expression of cooperative activity is informal organizations. It is here that socialization and learning take place, common understandings are forged, and the basis for the rise of formal organizations are developed. Informal organizations are critical to the development and functioning of the formal organization to meet human social needs and enhance the organization’s communication structure.

Formal organizations are defined by goals and purpose, arise out of the informal structure, and may build on it. They become complex formal organizations as they grow in size, become more intentional as systems, develop communications structures, become specialized and depersonalized, and contain informal organizations.

Barnard argues that individuals in organizations choose to contribute to them or not, calculating
functions of the executive. He might describe the employment contract as one wherein the conditions of employment are defined in terms of performance expectations—what individuals are required to contribute—and inducements, or what organizations provide in the relationship. For example, a person may agree to be hired as department accountant to contribute to the organization by performing requisite accounting tasks. In the hiring process, the organization outlines inducements: working conditions, compensation, benefits, a private office, and so on. If later the department accountant determines that the inducements are not sufficient compensation for poor working conditions or if the employee receives an offer from another company for twice the salary, then the inducements may become insufficient to secure continuing contributions from the individual. In the final analysis, this is a determination made freely by the individual.

Barnard's analysis that the individual, rather than the systems in place, is the starting point is contrary to the work of other theorists. Max Weber, for example, analyzes formal organizations, or bureaucracy, as a system of control and power over individuals.

Communication

As Barnard points out, interpersonal communication and human interaction are fundamental to cooperative activity. Communication is the means through which arrangements and partnerships with others are formed. The importance of this feature in Barnard's work cannot be overstated. While he did not detail specific skills, such as nonverbal communication, active and reflective listening, and other basic communication skills, it is clear that in Barnard's theory, interpersonal and organizational communication is paramount.

Fundamental to Barnard's emphasis on communication is his view that organizations must meet the needs of employees and establish levels of mutual understanding and cooperation. Individuals have free will and can leave the organization if they so choose.

In fact, communication and its systems are regarded as one of the top three executive functions in the organization, along with advancing the purpose of the organization and securing the commitment of individuals to that purpose. Communication is key to the exercise of authority because this is accomplished through communication of directives and other initiatives.

Underlying these functions for Barnard is moral commitment and a moral code. As compliance to organizational authority is grounded in clear communication, it is imperative that trust levels be established between organizational actors across levels. This is possible with a sense of morality and responsibility throughout the organization and is initiated and reinforced by the executive leader.

Authority

Barnard recognized the inevitability of authority dynamics whenever individuals come together in relationships and groups. With regard to organizations and other cooperative systems, Barnard views authority as emergent and person focused. One has authority over others to whatever extent that others grant the authority, or by consent. To be clear, Barnard conceptualizes authority as from the bottom-up rather than from the top-down. While one may have authority based on one's position in the organization, for Barnard, genuine (effective) authority is that which has the consent of the individuals. Authority resides in mutual relationships between supervisors and subordinates.

That said, authority is exercised through directives; the supervisor directs the subordinate to perform tasks and actions. What determines if the employee will obey? Barnard conceptualizes this issue through the zone of acceptance, or the acceptance view of authority, and the zone of indifference.

The zone of acceptance recognizes that authority is ultimately based on one's acceptance of the authority of the supervisor. The employee will comply with directives from the supervisor if directives are clearly communicated and understood, if directives can reasonably be accomplished (the employee is physically able to do the task), if directives are consistent with the organization's purpose, and if directives are not contrary to the individual's interests.

The zone of indifference is the range of directives that the employee regards as legitimate. These are requests with which the employee will comply without considering questioning the authority of the supervisor. An example might be that the supervisor of the accounting department directs the accountants to have the reports completed within 30 days. The employee likely sees such requests as entirely
reasonable and within the scope of the supervisor’s responsibility and thus would not question the authority of the supervisor in making the request. Barnard points out that expanding this zone of indifference would likely require additional inducements to the employee.

Barnard argues that organizations are effective when they meet their goals and accomplish their purpose. He further argues that they are efficient if in the process of meeting these goals, the participants cooperated and are satisfied with the process. That is to say, an organization may be effective, but if people are unhappy about how the goals were accomplished or about their lack of participation, then the organization in this regard is inefficient. This critical point advances the long-range view of the importance of employee satisfaction in the ongoing purpose of the organization.

**Importance**

There is no doubt that the early 21st century has shaped up to be a time of relentless turbulent change. These are fast-paced, extraordinary times. The legitimacy of published sources of knowledge is now constrained by rapid change, with current insights, knowledge, and information appearing on the Internet—much faster than customary publishing.

Traditional governing institutions around the world are demonstrating their limited ability to address daunting issues and challenges that were not known a generation ago. In 2011, the world witnessed the first ever social media-driven revolutions, which were fueled by Facebook, Twitter, and YouTube. The toppling of long-established dictatorial regimes by citizens without the use of weaponry is extraordinary in human civilization.

From the individual point of view, in this century, the future is experienced as increasingly unscripted because of relentless changes touching all parts of life: globalization, technological advances, dynamic employment environment, unexpected fluidity in communications, and even a sense of possibility. Individuals increasingly experience difficulties devising a career pathway toward an expected end. The implications of these changes are both enormous and unknown. Some of them are apparent even now—from the impacts of a global economy to changes in the ways people communicate, to artificial intelligence (note Watson, the IBM computer that soundly beat two seasoned champions on the TV quiz show *Jeopardy!*), to democratization of knowledge and taking courses on one’s mobile device, to international revolutions and self-organizing protests, to nanotechnology that rejuvenates human cells and cures disease, to toxic substances in a small vial of sufficient strength to launch chemical warfare, killing hundreds of thousands. And that is only the beginning.

As human experience becomes more globally connected through technology, and as conditions affecting one part of the world impact the rest of the globe, it is increasingly clear that 20th-century institutional and organizational structures may not be sufficient for the challenges ahead. The future is becoming more individualized rather than institutionalized. With technology, individuals are increasingly empowered. This was demonstrated by the Arab Spring of 2011. News and information are no longer channeled or vetted—everyone with a computer can create content on the Web for all to read. One’s individual influence is magnified.

Clearly, Barnard was correct in his assertion that all organizing begins with individual needs. Technology is shaping needs and limitations. Powered now with social media, people are self-organizing into groups all over the world, with no regard to geographic space and political boundaries, to achieve their purposes and aspirations. The physical limitation of space is mediated with Skype, enabling a meeting with someone on another continent without leaving the office.

Currently, the communication factor so prominent in Barnard is magnified as well as ubiquitous. With the Internet available on cell phones, the ease of information retrieval and communicating with multiple people at one time offers new opportunities for collaboration. The importance of basic communication skills is emphasized, along with the need to learn how to reach mutual understandings across mediums, time, cultures, and space.

Barnard’s conceptualization of authority is particularly germane for today’s self-organizing systems. The clear shift is from the hierarchical model of bestowal to the leveling of consent—from authority bestowed from high in the organization to provide oversight over those below, to authority that people accept because trust is earned. While Barnard did
not use this term, the issue becomes one of trust. Earning this level of trust is emerging as a leadership necessity for shaping the new century.

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See also Bureaucratic Theory; Charismatic Theory of Leadership; Compliance Theory; Cultural Values; Humanistic Management; Leadership Practices; Management Control Systems; Social Power, Bases of; Theory X and Theory Y; Trust

**Further Readings**


GAME THEORY

Game theory is a branch of mathematics that studies strategic interactions between intelligent and rational decision makers, called players. Strategic interactions take place anytime a player’s payoff depends not only on his or her own decision but also on the decisions made by the other players. Intelligent players fully understand the rules of the game and are able to assess the likely impact of their moves or actions. Given the available information, rationality simply means that players select the strategy that optimizes their payoff. Managers are regularly confronted with situations where the outcomes of their decisions are contingent on how their competitors or partners will react to those decisions. Examples include setting the price of a product, launching a new one, building an industrial plant overseas, bidding for a contract, and negotiating delivery terms with service and input providers. In these examples and in many others—indeed, the list is endless—managers must anticipate the other players’ possible decisions when formulating their own strategy, knowing that their competitors are just as sophisticated and are attempting to do the same. In a nutshell, game theory offers a model for thinking strategically in situations involving interdependent gains. As with any model, abstraction, or conceptualization, game theory represents a highly complex reality through a parsimonious model, retaining only those elements that are rationalizable determinants within the context under study. To illustrate, consider a negotiation over wages between a company’s management and union representatives. Experts agree that the outcome depends on variables such as the profitability of the firm, wages in similar firms in the industry, the state of the labor market, and both parties’ potential losses in the event of a strike. This does not imply that other factors, such as the negotiators’ ability, their past relationships, the shape of the room where the negotiations are taking place, and the time at which they start will not play a role in determining the negotiations’ outcome. Nevertheless, a game theory model typically ignores these last factors because their impact is too situation specific to be of any general interest. Also, because they are highly perceptual, they can hardly be represented in a conceptually appealing way. To give an analogy, game theory helps determine the best travel route from A to B, but it does not describe the scenery. The remainder of this entry is structured as follows: The elements of a game are defined, and a classification of games is provided; the roots of the theory and its history are discussed, and a brief assessment is given of the impact of game theory, particularly on management and managers.

Fundamentals

Elements of Games

A game involves the following constituent elements:

Players. The agents interacting and competing in the game are called players. A player can be an agent acting solely on his or her own behalf—for example, a chess player or an entrepreneur—or the player can
represent a set of individuals presumably sharing the same interest, such as a nation, a corporation, or a political party. In management, players are obviously human, but automata and cells have also been considered in game theory applications in engineering and biology.

**Actions.** Players have at their disposal a set of possible actions, also called moves or decisions, such as investment in research and development (R & D), price, and advertising budget.

**Payoffs.** Real numbers measuring the desirability of the game’s possible outcomes are payoffs—for example, the amount of money the players (and their organizations) may win or lose, such as raises, revenue, and profits. Other names for payoffs are rewards, performance indices or criteria, utility measures, and so on.

**Pure strategy.** A decision rule that associates players’ action with the information available to them at the time that they select their move is called pure strategy. So an action—for example, spending advertising dollars, or merging or not with another firm—is a result of the strategy. The word strategy comes from Greek (στρατηγία, strategia) and has a military meaning. An army general’s main task is to design a plan that takes into account (adapts to) all possible contingencies. This is precisely the meaning of strategy in game theory. In a war, as in management, there is no room for “I was surprised by the enemy.” This does not mean that it is always possible to design a winning strategy. Sometimes we should be content with a draw or even with a reasonably low amount of loss.

A player may also use a mixed strategy, which is a probability distribution defined on the space of a player’s pure strategies. It can be viewed as a random draw from a set of pure strategies. The idea of choosing a strategy randomly may be surprising in a theory of rational behavior, but it should not be. The randomization of strategies is a fully rational choice. In some instances, you may put yourself in a vulnerable position if your competitor can guess your strategy. Mixing strategies amounts to keeping a poker face—in other words, not giving out any information about your hand or about whether or not you are bluffing. To illustrate, suppose that a franchisor needs to inspect the franchisees’ outlets for cleanliness and assume that cleaning is costly. Clearly, the franchisor has to surprise the franchisees; otherwise, they will clean only before monitoring visits. By mixing strategies (randomizing over the set of inspection times), the franchisor can induce the franchisees to invest enough in cleaning. Mixed strategies also play an important mathematical role in the proof of existence of a solution to a game.

**Classification of Games**

In a zero-sum game, a player gains what the other loses. In business and economics, it is seldom the case that the players have fully antagonistic objectives. Even competitors battling for each other’s customers will share an interest in enlarging the market. Historically, zero-sum games attracted a lot of attention because parlor games—a source of inspiration for the first generations of game theorists—are zero-sum and because they are easier to deal with mathematically. In addition to this zero-sum/non-zero-sum distinction, games can be classified according to (a) the number of players, (b) the information structure, (c) the mode of play, and (d) the temporal interactions.

**Number of players.** Games can be designated by the number of players they involve—a one-person game, two-person game, or \( n \)-person game (with \( n > 2 \)). In a one-person game, the decision maker plays against a nonstrategic (or dummy) player, often referred to as “nature,” who makes random decisions. Two-player games focus on one-to-one interactions. Duopolistic competition, management-union negotiations, and politics in the United States are instances that can be modeled as two-person games. Extending the model to \( n \) players is often conceptually easy but may become computationally challenging because each player needs to guess all the possible sequences of actions and reactions for all players. When the number of interacting players is very large, such as an economy with many small agents, the analysis shifts from individual-level decisions to understanding the group’s behavioral dynamics. An illustration of this is traffic congestion: As a first approximation, each agent aims to minimize his or her travel time from A to B, but the speed at which any agent can travel depends on the density of other agents in the area. Population games, evolutionary games, and mean-field games are branches of game theory that study games with large numbers of players.
**Information structure.** This refers to what the players know about the game and its history when they choose an action. Players have *complete information* if they know who the players are, which set of actions is available to each one, what each player’s information structure is, and what the players’ possible outcomes can be. Otherwise, players have *incomplete information*. If, for instance, competing firms don’t know their rivals’ production costs, then the game is an incomplete-information game. The game can also have *perfect* or *imperfect information*. Roughly speaking, in a game of perfect information, players know the other players’ moves when they choose their own action. Chess is an example of a perfect-information game. So is a manufacturer-retailer game where the upstream player first announces a product’s wholesale price, and then the downstream player reacts by selecting the retail price. The archetype of an imperfect-information game is the *Prisoner’s Dilemma*, where (in the original story) the players have to simultaneously choose between confessing and denying a crime. A Cournot oligopoly, where each firm chooses its own production level without knowing its rivals’ choices, is another instance of an imperfect-information game.

Commitments and binding agreements are two key concepts related to the information available in a game. A commitment is where players bind themselves to take a future action. This binding and the action itself are known to the other players. In making a commitment, players can persuade (and sometimes force) the other players to take actions that are advantageous to them. Commitment is an absurd choice in an optimization context: Why would a rational decision maker want to reduce his or her set of choices by committing to a course of action? Interestingly, the situation is different when there are strategic interactions. For instance, by committing to investing in a shopping mall in a given location, a big retailer may gain an advantage by preventing the entry of rivals into that market. But clearly, it is not always beneficial to commit. To be effective, a commitment has to be *credible*. A particular class of commitments is *threats*. Credibility means that players will indeed implement their commitment (threat) if the conditions on which the threat rests are fulfilled. Otherwise, the threat is empty. One explanation for the avoidance of a nuclear conflict during the Cold War was that each player (NATO and the Warsaw Pact) firmly believed the other player’s commitment to launch a nuclear response to any nuclear attack, regardless of the cost. In some markets with few competitors, one reason for not engaging in a price war is that each competitor believes that cutting its price too much will almost certainly trigger a cascade of price cuts by competitors, which would result in an individual loss. In a binding agreement, two or more players decide together on restrictions to their possible actions and enter into a contract that forces the implementation of the agreement. Usually, a binding agreement requires an outside authority to monitor the agreement at no cost and to impose sanctions on violators that are severe enough to prevent cheating.

**The mode of play and solutions.** A game can be played cooperatively or noncooperatively. In the former case, the players can coordinate their strategies and make binding agreements, whereas this option is not possible (or does not make sense) in a noncooperative game. The main solution concept for a noncooperative game is *Nash equilibrium*. An equilibrium point is a vector of strategies, one for each player, with the property that no player can improve his or her payoff by unilaterally changing strategy. Conversely, any vector of feasible strategies that is not an equilibrium can be eliminated by a rationality argument; that is, at least one player can do better by adopting a different strategy. To illustrate, consider a duopoly game where each firm can choose between a regular price and low price for its brand. The resulting payoffs are these: Firm A and Firm B each earn a profit of 4 when both sell at regular price (RP) and a lesser profit of 3 when each sell at low price (LP), but if only one of the firms drops its price then it will earn a profit of 8 (LP) compared to the other’s profit of 1 (RP). For this game of imperfect information, the only Nash equilibrium is the pair of strategies (LP, LP), which results in a payoff of 3 to each player. It is easy to verify that no player can improve the payoff by unilaterally changing to the other feasible strategy—that is, to charge the regular price. Although both players would be better off playing the regular price strategy, there is no rational way of achieving this. Indeed, if A thinks that B will play RP, then the best choice is to implement LP strategy and get a profit of 8. Anticipating this rational reaction of Firm A, Firm B will in fact not choose RP. The same reasoning applies for B thinking that A will implement strategy RP. This game is of the
Prisoner's Dilemma variety—that is, a class of games where there is a Pareto optimal (or individually better) solution that, however, cannot be reached when the game is played once and noncooperatively.

Solving a cooperative game schematically follows a two-step procedure. In the first step, the players decide on a common objective to optimize; for example, the weighted sum of stakeholders’ benefits or the total cost of treating the solid waste of neighboring municipalities. In the second step, the players have to agree on a way of sharing the dividend of their cooperation. Different solution concepts have been proposed, such as the core, the Shapley value, the nucleolus, and the kernel, each based on desirable properties, such as efficiency, equity, uniqueness of allocation, and stability of cooperation. In any solution, the set of acceptable allocations includes only those that are individually rational. Individual rationality means that players will agree to cooperate only if they can get a better outcome in the cooperative agreement than they would by acting alone.

The temporal interactions. One-shot games are a useful representation of strategic interactions when the past and the future are irrelevant to the analysis; that is, today’s decisions affect only today's outcomes for the players and are independent of past moves. When there are carry-over effects and the players can condition their actions on history (and in particular on their rivals’ behavior), then a dynamic game is needed. In a repeated game, the agents play the same game in each round; that is, the set of actions and the payoff structures are the same in all stages. The number of stages can be finite or infinite, and this distinction has been shown to have a tremendous impact on the equilibrium results. In multistage games, the players share the control of a discrete-time dynamic system (state equations) observed over stages. Their choice of control levels, such as investments in production capacity or advertising dollars, affects the evolution of the state variables (e.g., production capacity, reputation of the firm) as well as current payoffs. Differential games are continuous-time counterparts of multistage games.

Evolution

Game theory can be seen as the generalization to a multi-agent setting of decision theory, which is concerned with determining the optimal behavior of a rational player, possibly in the presence of uncertainty. Decision theory and game theory have heavily relied, at least in some of their areas, on an axiomatic approach—that is, where the players’ behaviors are a consequence of some basic principles. For instance, payoffs in games are the translation of the players’ preferences, which satisfy the axioms of cardinal utility, which were first introduced by John von Neumann and Oskar Morgenstern. Further, the techniques used to solve games are intimately related to optimization techniques.

The history of the theory of games can be traced back to some key figures, including the following: James Waldegrave in 1713 gave the first known minimax mixed-strategy solution to a two-person game. Augustin Cournot, in his 1838 Researches Into the Mathematical Principles of the Theory of Wealth, solved the problem of producers competing in quantity, using a solution concept that is a restricted version of the Nash equilibrium. Charles Darwin, in the first edition of his 1871 book The Descent of Man, and Selection in Relation to Sex made the first (implicitly) game-theoretic argument in evolutionary biology. Francis Ysidro Edgeworth proposed the contract curve as a solution to the problem of determining the outcome of trading between individuals, in his 1881 Mathematical Psychics: An Essay on the Application of Mathematics to the Moral Sciences. The “core,” a fundamental concept in cooperative games, has been shown to be a generalization of Edgeworth’s contract curve.

In the period between 1910 and 1930, mathematicians Ernst Zermelo, Emile Borel, and John von Neumann proved some results for zero-sum games that gave the needed impulse for the theory to take off. The 1944 publication of Theory of Games and Economic Behavior, by mathematician John von Neumann and economist Oskar Morgenstern, both of whom fled Nazism in Europe in the 1930s to settle at Princeton University, is considered to be the official birth of game theory. The book was seminal, both for the mathematical ideas it contained and in relating game theory to economics. The relevance of this theory for the social sciences was quickly acknowledged by Herbert Simon in his review of the book in 1945. The 1950s and 1960s were highly prolific periods in terms of breakthroughs such as the concepts of equilibrium and of the bargaining solution (both due to John F. Nash), the value
of a cooperative game and the formulation of a stochastic game (both due to Lloyd Shapley), and the core (Donald Gillies), to name only a few. In 1960, Thomas Schelling published the influential book *The Strategy of Conflicts*, and in 1965, Reinhard Selten proposed the subgame-perfect refinement of Nash equilibria. In the mid-1960s, John Harsanyi constructed the theory of games of incomplete information. Many of the developments during that period took place at Princeton University and the RAND Corporation in California, and some were motivated by military applications, in particular, the work of Rufus Isaacs with differential games. Robert Aumann introduced the concept of the correlated equilibrium in 1974. John Maynard Smith’s 1982 book *Evolution and the Theory of Games* started the field of evolutionary game theory, which now has applications far beyond biology, where it began.

How has the theory evolved over time? Like many other branches of applied mathematics, the path taken by game theory in the last seven decades can be explained by three driving forces. The first is the intrinsic desire of mathematicians to generalize existing results to other structures, such as noncompact strategy sets and discontinuous payoff functions. The second driving force has been the need to solve applied problems, which then led to new theoretical developments. The third force is the testing of the theory. Experimental game theory highlighted some discrepancies between the equilibrium predictions and how players actually behave. This was a motivation to relax the assumption of rationality and adopt the milder one of bounded rationality. The theory’s vitality is in part due to the significant spillover of ideas that occurs between the communities interested in the mathematical aspects, the applications of game theory and experimentation.

**Importance**

Since its inception, game theory has tremendously developed and its impact is highly visible in the social sciences, engineering, biology, and computer science. Nowadays, there are learned societies and academic journals that are fully dedicated to game theory. Hundreds of books and lecture notes are available, dealing with different facets of the theory for different audiences (managers, economists, biologists, mathematicians, etc.).

Another indicator of its impact is that game theorists were awarded The Sveriges Riksbank Prize in Economic Sciences of Alfred Nobel in 1994 (John C. Harsanyi, John F. Nash, and Reinhard Selten), in 2005 (Robert Aumann and Thomas Schelling) and in 2007 (Leonid Hurwicz, Eric S. Maskin, and Roger B. Myerson). The contributions of the winners in 1994 and 2005 were alluded to above. The most recent award was given “for having laid the foundations of mechanism design theory,” which is useful whenever a principal (manager, government) wants agents (employees, firms) who have private information to behave truthfully. Mechanism design is sometimes referred to as a reverse game because the principal is choosing the game structure rather than inheriting existing rules. Game engineering, which is defined as the use of game theory to design practical interactive systems, is closely related to mechanism design. A representative real implementation of this part of game theory is the design of auctions for radio waves. The success of game theory comes at a cost. As has happened in the past to other successful fields, game theory has de facto split into subareas, each producing highly sophisticated results that are accessible only to experts. The ever-increasing number of specialized meetings is evidence of this trend.

The scholarly impact of game theory in management can be seen in the literature. Indeed, it is rare that any issue of a top-tier journal does not include at least one article applying game-theoretical thinking. Interestingly, scholars in business schools have not only been consumers of game theory; they have also played an important role in its development. The following are a few of the many topical managerial questions that have been successfully dealt with using game theory: how to coordinate a supply chain; whether a retailer should offer a matching-lower-price clause; how to design incentives to optimize employees’ efforts; and how to reorganize a financially distressed company.

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**See also** Agency Theory; Behavioral Theory of the Firm; Bounded Rationality and Satisficing (Behavioral Decision-Making Model); Decision Support Systems; Fairness Theory; First-Mover Advantages and Disadvantages; Strategic Decision Making; Theory of Cooperation and Competition
Further Readings


GANTT CHART AND PERT

The Gantt chart and program evaluation and review technique (PERT) are project management frameworks that are used to schedule, organize, and coordinate activities in a project. Project management has grown in importance due to increased complexity in the development process of goods and services. Membership in Project Management Institute (PMI) has grown from 7,500 members in 1990 to more than 334,000 members in 2010, according to PMI 2010 annual report. The Gantt chart and PERT have become indispensable parts of the contemporary manager’s toolbox. The Gantt chart was developed by Henry Gantt, a pioneer in the field of scientific management, as a graphical aid to scheduling jobs on machines in the late 1910s. PERT is a network diagram analysis technique developed in the late 1950s by Booz Allen Hamilton, Inc., under contract to the U.S. Navy for the Polaris Missile Project. PERT is similar to critical path method (CPM), developed around the same time by DuPont and Remington Rand. PERT and CPM both employ the critical path analysis to determine the project completion time and start and finish times of each activity. The difference between PERT and CPM is that PERT gives probabilistic estimates when activity times are uncertain and CPM offers the option of reducing activity times by adding more resources. Today’s project management software incorporates features of both approaches, so the distinction between the two techniques is no longer necessary. In the next section, the fundamentals of PERT and the Gantt chart are explained. It is followed by comparison and evaluation of the two methods and suggested readings for further information.

Fundamentals

PERT Network Diagram

PERT network diagram graphically illustrates the following: (a) when the project can be finished, (b) when each activity should be scheduled, (c) which activities are critical (i.e., a bottleneck) that must be started as soon as possible to avoid delaying the project completion, and (d) how long each noncritical activity can be delayed before the project completion time is delayed.

There are two types of PERT network diagrams: activity-on-arrow (AOA) and activity-on-node (AON). In an AOA diagram, the arrow represents the activity, and the node represents events such as the completion of one or more activities. In an AON diagram, the node represents the activity, and the arrow represents the sequencing between activities. Over time, AOA diagrams have lost ground to AON diagrams, which are more easily created with software. An AON network diagram shown in Figure 1 consists of nodes representing activities and arrows connecting the nodes to indicate precedence relationships. Specifically, an arrow from Activity I to Activity J indicates that Activity I is an immediate predecessor of Activity J. This means Activity J can be started only after Activity I is completed. Conversely, Activity J is called an immediate successor of Activity I. Each node contains the following information:

- Activity (task) name
- Activity duration: the length of time an activity will take (in weeks)
- Early start (ES): the earliest time when an activity can start
- Early finish (EF): the earliest time when an activity can finish
- Late start (LS): the latest time when an activity can start without delaying project completion
Late finish (LF): the latest time when an activity can finish without delaying project completion
Slack: the length of time an activity can be delayed without delaying project completion, computed as LS–ES or LF–EF.

The critical path analysis of the project consists of
(a) drawing the network with activity name and duration in each node,
(b) computing the ES and EF of each activity,
(c) computing the LS and LF of each activity, and
(d) identifying the critical path in the network. The start and finish nodes mark the beginning and ending of the project and are not real activities. Hence, their duration times are 0. These nodes are optional and are added to clarify the beginning and the ending of the project.

The ES and EF of each activity is computed by making a forward pass through the network, from left to right. Since duration of the start node is 0, its ES and EF are also 0. In general, the ES of each activity is the largest EF of its immediate predecessors. For instance, Activity G can be started only when both of its predecessors, D and E, are completed. D can be finished at 14.5 weeks into the project, and E can be finished at 20 weeks. So the earliest G can start is at 20 weeks. EF is computed by simply adding activity duration to ES. The ES of the finish node is the earliest time that the project can be completed. In this example, it is shown that the project can be finished in 27 weeks.

The next step is to compute LS and LF of each activity by making a backward pass, from right to left. First, LS and LF of the finish node is set equal to the project completion time, 27 weeks. For each activity, LF is computed before LS. The LF of an activity is the smallest LS of its immediate successors. For example, Activity D has two successors, G and H. To ensure both G and H start by their LSs, D must be completed by 20 weeks. After the LF is computed, the LS is obtained by subtracting the duration time from the LF.

Next, the critical path is identified in the network. To do this, slack is computed for each activity. It is the difference between the LS and ES (or equivalently, LF and EF). The critical activities are those that have slack of zero, meaning these activities cannot be delayed at all. The critical path is the path from start to finish consisting only of critical activities. In the example, the critical path is B-E-G-I as indicated in bold. The length of the critical path is equal to the project completion time. To illustrate, the length of B-E-G-I is $5 + 15 + 5 + 2 = 27$ weeks. Of all the possible paths in the network, the critical path is the longest one. There can be more than one critical path in the network. For example, if duration of H is 5 weeks instead of 4.5 weeks, there will be two critical paths: B-E-G-I and B-E-H-I.

Figure 1  PERT Network Diagram

Source: Author.
In summary, the critical path analysis of the project in Figure 1 yields the following results:

1. The project can be finished in 27 weeks.
2. The starting and ending times for the activities are indicated by the ES, EF, LS, and LF in the nodes of the project network.
3. The critical activities are B, E, G, and I. These activities must be started and finished as early as possible, according to ES and EF, in order not to delay the project completion.
4. The maximum lengths that the noncritical activities can be delayed are indicated by slacks in the activity nodes of the network.

Gantt Chart

While the PERT diagram illustrates dependence of activities, the Gantt chart shows the timing and the duration of each activity on a bar chart. In the Gantt chart, the length of each bar represents duration of an activity. The location of each bar is based on the ES and EF of the corresponding activity. At any point in time, it is easy to forecast the progress of each activity. For example, at 10 weeks into the project, the Gantt chart shows that activities A, B and C will be finished, and D, E, and F will be in progress. This aids in resource planning. The Gantt chart is simple to understand and is useful for tracking the progress of the project. However, it does not show the dependence between activities, so it is difficult to tell how delay in an activity will affect the project completion time.

A project management software program, such as Microsoft Project, will usually show more details in a Gantt chart. It can show precedence relationships, with arrows connecting Activity A to the left edge of Activity D indicates A is an immediate predecessor of D. Microsoft Project can also highlight the critical activities and track the progress of the project with the progress bar overlaid with the baseline bar.

Probability Estimation in PERT

When the activity duration times are certain, the project completion time obtained with critical path analysis can be taken as a reasonable estimate. If a similar project has not been completed before, the activity duration may be highly uncertain. In that case, the duration of each activity is modeled by a beta distribution with three parameters: optimistic time \((a)\), most likely time \((m)\), and pessimistic time \((b)\). The expected time \((t)\) is a weighted average of the three time estimates, given by \((a + 4m + b)/6\), and the variance of each activity duration is computed as \((b - a)/6\)^2. For example, suppose Activity D is estimated to take between 5 and 26 weeks with the most likely time being 11 weeks. Then the expected duration of D is \((5 + 4(11) + 26)/6 = 12.5\) weeks, and its variance is \(((26 - 5)/6)^2 = 12.25\) weeks. Modeling uncertain activity times with a probability distribution is the feature that distinguishes PERT from CPM.

In PERT, the expected times are used to find the critical path with the usual forward and backward passes. Then the project completion time is modeled by a normal distribution with the mean equal to the length of the critical path, and its variance is equal to the sum of variances of critical-path activities. With these assumptions, probability of finishing by a deadline can be estimated.

Importance

While the Gantt chart and PERT have been most widely used in the construction, information technology, and new product development, they are increasingly being used to manage complex projects in virtually all industries. Some examples are event planning, performing arts productions, underwriting financial instruments, and marketing campaign.

The Gantt chart and PERT are useful in planning a project where time is a limited resource. Both can be used to schedule activities, determine the project completion time, and identify critical activities and activities with slack. The benefits are time savings, facilitation of resource planning, and transparency of the project's progress to the project team members and other members of the organization. To use these techniques, the project team needs to identify the activities of the project, estimate the duration times, and identify dependencies among activities. Typically, these inputs are entered into a project management software program that will produce both the Gantt chart and PERT diagrams.

The Gantt chart is better known than PERT because it is understood more easily by managers.

The advantages of the Gantt chart are as follows:
(a) It is easy to create and easy to understand; (b) it can illustrate the current state of a project; (c) it can be used to track progress of the tasks at any point
Garbage Can Model of Decision Making

The garbage can model (GCM) is a model within the area of organizational behavior that describes the decision-making process in so-called organized anarchies (organizations facing extreme levels of ambiguity in their decisional environments). The GCM attempts to explain how organizations make choices without having consistent, shared goals and how the organizations’ members are involved in these decision-making processes. The decision-making process within the organized anarchies is portrayed as a garbage can into which a mix of problems and possible solutions are dumped, with the particular mix determining the decision’s outcomes. The mix is reflected by (a) how many decision areas are handled by the organization, (b) which people in the organization have decision-making power, (c) the organization’s decision load, and (d) its resources, time, energy, and attention. This model has been used particularly to describe decision-making processes in the public sector and academic organizations, and it has been tested with computer simulations and real-life decision-making situations. In the following sections of this entry, the fundamental aspects of the GCM are presented, followed by a description of its patterns and decision styles and, finally, a discussion of the model’s importance.

Fundamentals

Organized Anarchy

Central to the GCM are the “organized anarchies,” which are organizations overwhelmed by extreme ambiguity. This ambiguity appears within three principal areas. First, these organizations are characterized by having multiple, inconsistent, and ill-defined preferences. These organized anarchies tend to rely on a variety of ideas to operate rather than on a coherent systematic structure. They are also likely to find their goals through action rather than knowing them a priori, by choice. At the same time, according to the model, the decision makers of these organizations have a limited understanding of the processes, technology, and means being used. This causes trial-and-error-based behaviors or wandering when faced with demands for choice. Through this, decision makers gain residual experience from accidental learning and by creating practical solutions to the issues that they face. A final characteristic of these organizations is the fluid participation of its members. Decision makers capriciously allocate resources, time, and energy to the issues they face, depending on the domain of the organization they are focused on at any particular time, which, in turn, shapes the outcome of the decision-making process. Such a fluid participation adds extra uncertainty to

Further Readings


the process as a whole and makes the boundaries of these organizations more volatile.

An important feature of the GCM is the idea that decisions are the result of a chance encounter of four independent streams of events that flow in and out of the organizational decision situations: the problems, the solutions, the participants, and the choice opportunities. The problems within the GCM are the issues and concerns raised by the organizational members, and the solutions are the answers looking for problems. The participants are the organizational members that intermittently pay attention to these issues according to their available time and energy. The choice opportunities are all the situations that call for a decision. According to this model, these four elements are unrelated or only loosely coupled most of the time, and they share only in that they happen to be simultaneously available at a specific point in time. As with a garbage can, problems and solutions are thrown in and become connected with each other by chance, making the decision-making process more a function of random encounters than a rational process. This model emphasizes the fact that solutions, problems, and participants are not connected to each other rationally but arbitrarily, by their mere fortuitous simultaneous occurrence. The consequences that arise from such a particular decision-making process are that in general it is seen as a fuzzy, chaotic process that lacks a clear beginning and end, being the synthesis of a random confluence of disparate streams of events. According to this model, solutions might even be posed when there is no clear problem present, and some critical problems within the organizations may persist without being solved.

**Patterns and Styles**

The GCM has been tested by using a simulation routine in FORTRAN (formula translating system), a programming language. A number of 81 types of organizational situations were obtained by taking all possible combinations of the four streams in a given organization:

1. Access structure (unsegmented, hierarchical, and specialized)
2. Decision structure (unsegmented, hierarchical, and specialized)
3. Energy distribution (important people–low energy, equal energy, important people–high energy)
4. Net energy load of the organization

Considering all the values of the four dimensions, the total number of simulations that were run was 324 in a 20 time-period simulation of organizational decision making. At each of the possible organizational structures generated, the problems, decision makers, and energy levels necessary to make the decisions and solve the problems were assigned. The simulation also considered three different decision styles or ways of solving problems within organizations. First, *by resolution* when some choices solve problems after a period of working on them. The length of time is subject to the number of problems in the queue, waiting to be solved. Second, *by oversight*, referring to the kind of decisions made when decision makers ignore the existing problems when choosing a solution and only invest a small amount of time and energy. In these situations, the choices take place when problems are actually attached to other choices. And third, *by flight*, describing the cases in which some unsuccessful choices are associated with problems until a more attractive choice opportunity with a more successful matching of problems and solutions comes along.

The *net energy load* in the model refers to the energy expenditure in this process, which reflects the decision maker, the movement, and the persistence. Four measures were used to reflect the net energy load in the GCM simulation: (a) the total number of time periods that the decision maker is attached to a particular choice, (b) the total number of times that any decision maker shifts from one choice to another, (c) the total amount of effective energy available, and (d) the total effective energy that is actually used on choices. Apart from these measures, some other aspects of the decision process were also considered in the model, such as the decision difficulty, the problem latency, and activity.

The simulations resulted in some patterns across the different conditions: The most common decision-making styles for problem solving were found to be problem solving by flight or oversight rather than by resolution of problems. The problem-solving process was also found to be quite sensitive to variations in the energy load. The simulations showed
that an increase in the net energy load generated an increased problem activity, decision maker activity, decision difficulty, and the use of flight and oversight to a higher degree.

Moreover, another pattern indicated that important choices are less likely to resolve problems than unimportant choices and that unimportant choices tend to be made by resolution.

**Importance**

The central insight of the GCM is that it captures the complex environment that surrounds organizational decision making and it comes to the conclusion that decisions in such situations tend to be arbitrary, ritualized, and chaotic. By looking into a phenomenon that has been essentially neglected by other models, the main contribution of the GCM is that it adds to the understanding of decision-making behavior in the daily operations of organizations. The model attempts to make sense of the decision-making process in organizations where rational choice models cannot be applied. It represents a point of departure from previous models that assume rational outcomes, consistent sets of preferences, knowledge of alternative solutions, and a full capacity of the decision makers to calculate the probabilities of success of each course of action. The GCM describes the decision-making process in highly ambiguous choice situations where goals and preferences are unidentified, fuzzy, or internally contradictory and the calculation capacity of the decision makers is limited or nonexistent. One strength of the GCM is that it is able to account for much of the seemingly fortuitous and contradictory behavior present in organizational decision making. Another important strength is the fact that the model treats the decision making in organizations not as a mere individual mental process but as a collective phenomenon, adding extra complexity to this process and its understanding. The GCM focuses on several explanatory variables that might affect the decision-making process. It takes into account a wide range of intervening events that influence the decision-making process not considered by other decision-making models.

The GCM emerged as a reaction against the highly structured conceptualizations of organizational decision making within the traditional rational-choice models that dominated the management field at the beginning of the 1970s. The traditional theories of decision making, management, and organization at that point took as a fact the existence of well-defined goals and technology, as well as a substantial participation of the members in organizations’ affairs. However, when goals and technology are blurry and participation is fluid, the traditional models of management and decision making tend to fail. In that sense, the GCM expands the organizational decision theory into the little-explored field of organizations that undergo high levels of ambiguity and confusion, as these are not clearly portrayed by the classic theories of decision making.

The GCM also shifts from the earlier focus on decision making as an individual process to a more macro, aggregated, organizational-level decision making.

The GCM abandons the idea that decision making in these organized anarchies would follow a set of linearly defined stages that lead to predictable coherent outcomes: a process that would start with a problem that is clearly defined and isolated and that would end with a solution. Unlike classical decision theory, the GCM, already from the start, disconnects the problems, solutions, and decision makers from each other and depicts both the organizations and decision-making processes as complex, dynamic, and fuzzy phenomena.

The GCM is a significant and often-cited contribution to organizational behavior theory that combines empirical observations, theory, and simulation methodologies. It adds insight into how organizations strive to survive while struggling with ambiguous and multifaceted problems as well as an unpredictable environment. The original GCM has been criticized for amplifying the “anarchic” nature of decision making, focusing on the influence of power and structural constraints. However, according to other studies, institutional theories might complement the GCM by describing how decision making may occur in a slightly more organized manner. Combining the studies that have been carried out to test this model, an important conclusion is that organizational decision making cannot be understood in purely rational terms but would rather need to be analyzed in the context of streams that determine the particular combination of problems, solutions, and participants, in something that might be considered a garbage can.

*Leonardo Liberman*
GENDERLECT AND LINGUISTIC STYLES

Language is not only a communication tool but also an instrument providing information about the interlocutors, taking into account their gender, culture, and identity, at both the individual and group level. Thus, a **linguistic style** can be described as the set of characteristics that determine one’s speaking patterns, whereas a **genderlect** can be defined as the variety of speech shaped by several gender-related features. Linguistic styles and genderlects are important not only for linguists but also for the representatives of other disciplines, including both the researchers and practitioners of management studies and practice. The application of selected linguistic data on styles, dialects, and registers into organizational studies is multidimensional, including the possibility of investigating hierarchies, choosing and adapting marketing and branding strategies, understanding the nuances of intercultural communication, and creating and running effective advertising campaigns. This entry will concentrate on presenting the notions of genderlect and linguistic styles, showing their main features and functions as well as their role in modern management.

**Fundamentals**

**Genderlect** is defined as a set of gender-related characteristics of one’s speaking. As far as the terminological level is concerned, other terms used for determining the types of gender discourses are registers or styles (e.g., female registers, women’s style). The term **women’s language** was introduced by Robin Lakoff in 1973, and in her later studies, she categorized the way women speak. She discovered that women and men differ as far as specialized vocabulary is concerned; for example, women generally use more names for colors. Moreover, the selection of job-related terminology is also determined by gender. Thus, females have a broader vocabulary about activities generally undertaken by women. As far as expletives are concerned, women rely more often on milder forms, whereas men are rather likely to opt for stronger tools of discursive power, even swear words. Women are also likely to use adjectives representing their emotion, rely on tag question to express uncertainty, and opt for more polite forms in asking for something. In addition, male style is often more impersonal, whereas females prefer more personalized forms of communication. However, apart from the perspectives stressing gender binarism, there are other approaches to genderlects. Since gender is not the only the factor shaping the way one communicates, other parameters, such as class, education, or background are taken into account by researchers to discuss gender variations in broader contexts (groups, communities, companies). The other view is to treat genderlect as a constructional tool of one’s identity, with genderlectal linguistic repertoire being the instrument of constructing individual and group personae.

**Linguistic style** can be defined as the set of characteristics determining one’s speaking pattern. Elements of linguistic style include the tone of voice, speed, volume, use of pauses, directness or indirectness, choice of words, credit taking, and the use of questions and jokes as well as the body language that accompanies communication. Taking the cultural perspective into account, linguistic styles can be perceived not only as the set of cultural signals that allows people to communicate their needs, wishes, or feelings but also to understand the message that others want to communicate. In scientific literature, linguistic styles are often associated with one’s individual use of language idiolect. However, linguistic styles can be also discussed through the
prism of investigating groups or communities (e.g., companies) to study the relations within the grouping as well as the grouping’s links with the broadly understood environment.

Both genderlects and linguistic styles are determined by the function they serve (e.g., scientific, technical, business, everyday). As far as management studies are concerned, they vary in terms of the area they are applied to, the type of specialists using them, and the kind of audience toward which they are directed. Thus, the discourse of accounting differs from marketing communication at lexical, syntactic, and pragmatic levels. It should be stressed that the importance of genderlects and linguistic styles is different even within one studied area of management. For example, as far as advertising is concerned, genderlectal elements are strong in the products directed exclusively at female/male users. Moreover, linguistic styles are not only centered on the function they serve; they also mirror the links between those engaged in communication acts and provide information on the inter- and intraorganizational relations between managers, workers, and stakeholders. Thus, linguistic styles are not only used to communicate ideas and exchange opinions, but they also determine the creation and maintenance of relationships. In the use of words and forms of expressions, one shows the attitude to the interlocutor and his or her place and role in conversation. Thus, the way linguistic styles are handled determines organizational communication at both the internal and external level, since they mirror hierarchical relations and organizational communication policy. Moreover, according to the so-called linguistic style matching (LSM), the selection of speaker’s linguistic tools determines the response of the listener. Thus, linguistic styles are dynamic phenomena, constantly responding to the changing conditions for both the worker and the organization.

As far as knowledge and innovation are concerned, linguistic styles facilitate the exchange of information between management studies and other disciplines. Moreover, they allow knowledge creators not only to inform the potential users on their novel solutions but also receive constructive feedback from broadly understood stakeholders that can later stimulate the development of innovative and effective products or services.

Additionally, the variety of linguistic styles offers managers the possibility of communicating with diversified stakeholders, taking into account their needs and preferences. For example, some groups of speakers prefer direct face-to-face interactions, whereas others opt for written or online communication. Moreover, the selection of linguistic style corresponds to the type of message and the topic of interaction in order to communicate effectively.

Magdalena Bielenia-Grajewska

See also Acculturation Theory; Critical Theory of Communication; Cultural Values; High- and Low-Context Cultures; Individual Values; Informal Communication and the Grapevine; Managing Diversity; Social Power, Bases of

Further Readings


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Pursuing global opportunities is a high priority for most corporations. In a survey of 500 executives at 100 corporations 75% of the respondents’ corporations were planning to compete in foreign markets, and 50% expected their corporations to receive more revenue from foreign markets than their domestic markets. The increasing global exposure of corporations increases managerial interest in understanding national cultures and their implications for executives and corporations. In a recent survey, CEOs identified “mobilizing teams and working across cultures” as the top two leadership competencies. There are also compelling academic reasons for considering the impact of societal culture on leadership. The goal of science is to develop universally valid theories. There are inherent limitations in transferring social science theories across cultures. What works in one culture may not work in another. As Harry Triandis suggests, leadership researchers will be able to “fine-tune” theories by investigating cultural variations as parameters of those theories. Furthermore, a focus on cross-cultural issues can help uncover new relationships by including a broader range of variables. The GLOBE (Global Leadership and Organizational Behavior Effectiveness) research program was founded by Robert House in 1991. GLOBE is a multiphase, multimethod, multisample research project to examine the interrelationships between societal culture and organizational leadership. Over 200 scholars from 69 cultures are engaged in this long-term series of studies. The investigators studied over 900 domestic corporations in 62 countries in the first two GLOBE phases and over 1,000 corporations in 24 countries in the third phase of GLOBE. Of the latter 24 countries, 17 were in common with the first two phases, so 69 societies in total were studied. This entry summarizes the main findings of the model and presents some of its most important implications for contemporary management practice.

**Fundamentals**

Since 1991, the GLOBE research program has continued in three distinct but interrelated phases. Following is a brief description of the major objectives and findings of the program so far. This entry’s focus is on the findings with management and leadership implications.

**GLOBE Objectives and Findings of Phases 1 and 2**

The researchers developed societal measures of cultural values and practices in the first phase of the research project. The investigators surveyed over 17,000 middle managers in 62 cultures and identified nine cultural dimensions briefly described below:

- **Power distance:** The degree to which members expect power to be distributed equally
- **Uncertainty avoidance:** The extent to which norms and rules are relied on to alleviate unpredictability
- **Humane orientation:** The degree to which individuals are encouraged to be kind to others
- **Collectivism I (institutional collectivism):** The degree to which collective distribution of resources is encouraged
- **Collectivism II (family collectivism):** The degree to which individuals express pride and loyalty to their families
- **Assertiveness:** The degree to which individuals are assertive in their relationships with others
- **Gender egalitarianism:** The degree to which gender inequality is minimized
- **Future orientation:** The extent to which individuals engage in future-oriented behaviors
- **Performance orientation:** The degree to which members are encouraged to improve performance

GLOBE defined leadership as the ability of individuals to motivate and enable others to contribute to the effectiveness and success of their organizations. We (the investigators) extended the concept of implicit leadership theory (ILT) to the level of national culture and hypothesized that members of different societies have differing expectations from their leaders, influenced by their cultural values.

**The Culturally Endorsed Leadership Theory**

We found 21 primary dimensions of leadership expectations. A second-order factor analysis of these 21 dimensions produced a set of what we refer to as six global leadership dimensions. The six global
dimensions and their associated 21 primary leadership dimensions constitute our notion of culturally endorsed leadership theory (CLT) as described below:

**Charismatic/value-based leadership.** Reflects the ability to inspire and expect high performance outcomes based on firmly held core values; includes six primary leadership dimensions: (a) visionary, (b) inspirational, (c) self-sacrifice, (d) integrity, (e) decisive, and (f) performance oriented.

**Team-oriented leadership.** Emphasizes team building and implementation of a common purpose; includes five primary leadership dimensions: (a) collaborative team orientation, (b) team integrator, (c) diplomatic, (d) malevolent (reverse scored), and (e) administratively competent.

**Participative leadership.** Reflects the degree to which managers involve others in making and implementing decisions; includes two primary leadership dimensions: (a) nonparticipative and (b) autocratic (both reverse scored).

**Humane-oriented leadership.** Reflects supportive and considerate leadership and includes compassion and generosity; consists of two primary leadership dimensions: (a) modesty and (b) humane orientation.

**Autonomous leadership.** Refers to independent and individualistic leadership.

**Self-protective leadership.** Focuses on ensuring the leader's security through status enhancement and face-saving; includes five primary leadership dimensions: (a) self-centered, (b) status conscious, (c) conflict inducer, (d) face-saver, and (e) procedural.

**Universally Desirable and Undesirable Leadership Attributes**

The following leadership attributes were found to be universally desirable: Managers in all GLOBE countries believed they contribute to outstanding leadership: trustworthy, just, honest, foresight, plans ahead, encouraging, positive, dynamic, motive arouser, confidence builder, motivational, dependable, intelligent, decisive, effective bargainer, win–win problem solver, administratively skilled, communicative, informed, coordinator, team builder, and excellence oriented.

The following leadership attributes were found to be universally undesirable: loner, asocial, noncooperative, irritable, nonexplicit, egocentric, ruthless, and dictatorial.

**Cultural Values as Predictors of Leadership Expectations**

There are important relationships between the nine cultural values and six global leadership dimensions. For example, performance orientation as a cultural value predicts all six leadership dimensions. It is a very strong positive predictor of charismatic, participative, and autonomous leadership dimensions. It also positively predicts team-oriented and humane-oriented leadership dimensions and is negatively related to self-protective leadership. Following is a brief summary of how cultural values predict leadership expectations:

- Societies (e.g., United States or Singapore) that value performance orientation expect their leaders to be charismatic, participative, autonomous, team oriented, and humane. They do not want their leaders to be self-protective.

- Societies (e.g., Egypt and Ireland) that value humane orientation expect their leaders to be charismatic, participative, humane, and team oriented. They do not want their leaders to be autonomous.

- Societies (e.g., Thailand and Taiwan) that value uncertainty avoidance and rules orientation expect their leaders to be self-protective, humane, and team oriented. They do not want their leaders to be participative.

- Societies (e.g., Egypt and Malaysia) that value strong family orientation expect their leaders to be charismatic and team oriented. They do not want their leaders to be self-protective.

- Societies (e.g., Czech Republic and South Africa) that value high power distance more than do other GLOBE countries expect their leaders to be self-protective. They do not want their leaders to be charismatic or participative.

- Societies (e.g., Sweden and England) that value high gender egalitarianism expect their leaders to be charismatic and participative. They do not want their leaders to be self-protective.
• Societies (e.g., Canada and Singapore) that value high future orientation expect their leaders to be charismatic, team oriented, and humane.
• Societies (e.g., Japan and China) that value high levels of assertiveness expect their leaders to be humane. They do not want their leaders to be participative.
• Societies (e.g., El Salvador and Brazil) that value high levels of institutional collectivism do not want their leaders to be autonomous.

Objectives and Findings of GLOBE Phase 3

GLOBE Phase 3 has just been completed. The investigators surveyed and interviewed 1,060 CEOs and surveyed their over 5,000 direct reports in 24 countries. The goal was to examine the relationship between national culture, CLT leadership behavior, and leadership effectiveness. In the previous phases, the impact of national culture on managerial expectations of their leaders was examined. In Phase 3, we studied the impact of national culture and CLT on actual behavior of CEOs and their effectiveness. The full description of Phase 3 will be available in the forthcoming book Strategic Leadership: The GLOBE Study of CEO Effectiveness Across Cultures to be published in 2012. The following is a brief summary of our findings:

National culture does not predict leadership behavior. Contrary to the conventional wisdom, our analysis of the correlation between the nine cultural values and six global leadership dimensions of behavior shows that with a few exceptions, national culture values do not directly predict leadership behavior.

CLT predicts leadership behavior. We examined the correlation between the six CLT global leadership dimensions and their counterpart leadership behaviors. Five out of six CLTs are significantly correlated with their behavioral counterparts, meaning that CEOs tend to behave in accordance to societies’ expectations of their leaders.

Leaders who behave according to expectations are effective. The extent to which each leader’s behavior is congruent with the culture’s CLT counterpart determines the leader’s effectiveness. For example, in societies whose CLT expects charismatic attributes, leaders who exhibit these attributes generate strong commitment, effort, and team solidarity among their direct reports.

There are three generic types of global leaders. Our findings show three types of leaders: (1) CEOs whose behavior falls short of the societies’ expectations and end up with underperforming corporations and less dedicated direct reports. (2) CEOs whose behavior matches societal expectations and tend to lead reasonably successful corporations and dedicated direct reports. (3) CEOs who significantly exceed their societal expectations and produce superior results. As an example, we found that among 1,060 CEOs, superior leaders’ behavior exceeds the societies’ expectations. In contrast, inferior CEOs fall drastically short of their societies’ expectations.

Importance

GLOBE’s 20-year journey has tried to understand the intricate relationship between national culture and leadership expectations, behavior, and effectiveness. We have identified what societies expect from their leaders, how leaders behave in different societies, and what it takes to succeed as a leader in different cultures. This is the first time in the literature that we are able to empirically and scientifically show these complex relationships. Managers can find this information valuable in their efforts to work with and motivate individuals from other cultures. Scholars can use this information to further enhance our scientific understanding of leadership across cultures.

The GLOBE instruments on societal cultural values and practices have shown strong psychometric properties. They are validated as cross-cultural instruments that can be used to compare and contrast the cultures of different countries. GLOBE methodologies and findings are now reported in the latest issues of books focused on cross-cultural and global leadership and management and are being used by various consulting firms who specialize in cross-cultural management.

GLOBE has also received the following awards: (1) American Psychological Association award for Culture and Leadership Across the World: The GLOBE Book of In-Depth Studies of 25 Societies. Recipient of the 2008 Ursula Gielen Global Psychology Book Award, given annually by
the International Psychology Division (52) of the American Psychological Association to authors of the book that makes the most significant contribution to psychology as a global discipline. (2) Bob House received the Eminent Scholar award for his long years of contributions to the field of leadership. (3) Academy of Management Perspectives (formerly Academy of Management Executive)—best journal paper award for “In the Eye of the Beholder: Cross Cultural Lessons in Leadership From Project GLOBE,” by Javidan, M., Dorfman, P., Sully de Luque, M., and House, R. J. (4) Society for Industrial and Organizational Psychology’s annual M. Scott Myers Award for Applied Research in the Workplace—awarded to the GLOBE Project team for development, conduct, and application of outstanding practice of industrial-organizational psychology in the workplace (business, industry, government).

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See also Cultural Attitudes in Multinational Corporations; Cultural Intelligence; Cultural Values; High- and Low-Context Cultures; Social Cognitive Theory; Social Construction Theory

Further Readings


Goal-Setting Theory

The central management insight of goal-setting theory is that a powerful way to motivate employees is to give them specific, challenging goals. Motivating employees is a core function of management and leadership. A goal is the object or aim of an action. Although the domain of the theory was originally focused on task or work performance, the domain has expanded enormously in recent years. This entry presents the core aspects of goal-setting theory, the mediators (causes) of goal effects, the moderators (boundary conditions) of goal effects, the sources of goals, and the relation of goals to affect (emotions). Also discussed are the issue of multiple goals, goal setting for groups and organizations, the evolution of goal theory, including new developments, and the importance of goal setting.

Fundamentals

The core aspects of goal-setting theory pertain to goal attributes. The highest performance is attained when goals are both specific (usually quantitative) and challenging (difficult). Goals such as “do your best” do not lead to as high performance as specific, challenging goals (with one exception, as noted below). Given sufficient knowledge and
commitment, the higher the goal, the higher the performance. Divorced from difficulty, goal specificity decreases variation in performance insofar as it is controllable.

**Mediators**

Mediators are causal mechanisms. Goals operate through four such mechanisms. They affect attention and effort to goal-relevant knowledge and action at the expense of what is not relevant. They affect effort, in accordance with the difficulty of the goal. They motivate persistence until the goal is attained. The fourth mechanism is more cognitive in nature; goals motivate people to recall and use knowledge of how to perform the task (e.g., task skills, strategies). If people do not have the knowledge, goals motivate them to seek it. However, such searches are not always successful; on new, complex tasks difficult goals may motivate people to blindly try different strategies without discovering the appropriate procedure. In such cases, do-your-best type goals may work better than specific, difficult goals. This is the exception noted above. The solution to this problem is explained in the next section.

**Moderators**

Moderators are interactions or boundary conditions.

**Commitment.** If people are not committed to their goals, then goals will have little or no effect on their behavior. Two broad classes of factors affect commitment. One pertains to the importance or value (attractiveness) of the goal. The values may be strictly internal (part of one’s personal value hierarchy), external, or external plus internal. For example, monetary incentives may increase commitment if one values money. But money can have a deleterious effect on a person’s performance if the goals tied to the money are viewed as impossible to reach and no credit is given for progress toward the goal. Another external factor is leadership. If one admires a leader or views commitment to assigned goals as inherent in the employment contract, that employee will exert effort to attain them. Peer group influence also affects commitment if one values the peer group. Making the goal public increases commitment because it puts one’s integrity at stake.

The second factor affecting commitment is confidence. To commit to a goal, one must have the confidence that one can attain it. The key concept here is that of self-efficacy, a term coined by psychologist Albert Bandura. Self-efficacy refers to task-specific confidence—that is, how well one can coordinate and carry out a set of actions that will lead to certain performance outcomes. The belief that reaching a goal is important or desirable has little motivating power if one believes that the goal is unattainable. Self-efficacy is based in part on past performance attainments. In addition, it depends on how one interprets one’s previous achievements (e.g., the attributions one makes about them) and the context in which they were achieved. For example, if one attributes a past attainment to luck, this will not raise self-efficacy. On the other hand, if one recalls being sick on the day of a poor performance, self-efficacy may not be lowered if progress is not made regarding goal attainment.

Goal commitment is most important when goals are difficult. When goals are easy, commitment is not hard to get as long as there is a reason for taking action. Commitment is most readily measured with a questionnaire (e.g., How committed are you to this goal?). A leading researcher on this topic is Dr. Howard Klein.

**Feedback.** Goals require feedback so that people can keep track of their progress. Such feedback pertains to how well people are performing. Coaching feedback tells people how to perform better and is valuable in its own right. If people are “behind schedule,” the feedback can signal them to speed up or work harder or to try a different strategy. If they are ahead of schedule, the feedback signals they are on the right track. Feedback at the end of a trial or work period can lead people to set higher future goals for themselves. But again, self-efficacy plays an important role in this regard. Self-set goals are most likely to be raised after performing effectively and if self-efficacy is high. Success in itself usually raises one’s self-efficacy. After failure, if self-efficacy is low, goals may be lowered or even abandoned.

**Task complexity.** Goals often have less effect on tasks that are straightforward for a person than on complex tasks. This is most likely caused by the fact that on complex tasks people do not always know or discover effective task strategies or possess the
needed skills. If people do have the needed knowledge and skills, specific high goals typically work as well for complex as for simple tasks.

**Organizational support.** Environmental factors such as supportive leadership, equipment, time, help, and money can affect goal attainment depending on their favorability.

**Knowledge, ability.** Knowledge, ability, and skill were noted earlier as goal mechanisms because one needs them to attain goals. But these factors are also moderators. This is because people who lack the requisite knowledge or skill will not perform as well with the same goals as people who do possess them.

**Goal Sources**

There are three main sources for goals. They can be self-set based on one's own values and personal context (e.g., self-efficacy). They can be assigned, typically by an employee's supervisor or by higher management. Assigned goals, in turn, affect self-set goals, as a mediator. Goals can also be set participatively—that is, jointly by the employee and the manager. There is an extensive literature on participation in decision making. In the end, it was found that participatively set goals do not work any better than assigned goals, provided that the assigned goals are not given abruptly or arbitrarily but with a rationale and an expression of confidence that the individual can succeed in attaining the goal. Although participative goal setting is useful as long as goal difficulty level is carefully considered, considerable research reveals that participation seems to be more consistently useful as a method of information exchange (e.g., subordinate to supervisor) than as a motivator.

**Goals and Satisfaction**

Goals are, at the same time, an objective to shoot for and a standard for evaluating one's performance. These are two sides of the same coin. Goal success leads to satisfaction, and goal failure leads to less satisfaction or dissatisfaction. This means, of course, that people with easy goals are more likely to be satisfied than people with hard goals. This poses the question of how goals that produce less satisfaction lead to higher performance than goals that produce more satisfaction. The answer is implicit in the question. Having a challenging or difficult goal means that you have to accomplish more in order to feel satisfied. This brings up the question of why people set or accept hard goals. The answer is twofold: First, ceteris paribus, people who accomplish more feel more personal pride than people who achieve less. Students are more proud of getting an A than getting a C. Second, in the real world more practical rewards accrue to those who attain challenging goals. For example, usually (recessions notwithstanding) attaining more education leads to better jobs and a better choice of jobs, more pay, and more job security than does less education. Higher aspirations are harder to attain, but they have a bigger payoff than low aspirations. Ambition means not being satisfied with less. An added benefit of goal setting is that it can increase interest/decrease boredom on tasks that are not always intrinsically interesting.

**Multiple Goals**

Goal theory has no recommendations regarding how many goals employees should be given. There are many contextual factors involved. These include an employee's ability and knowledge, the time span(s) involved, the causal interconnections between the goals, the ability to delegate some responsibilities, the hierarchy of importance, task complexity, and so on. It is normal for people at work to have more than one goal, but there has been little research on the subject. A few studies show that people can successfully pursue multiple goals at work. There have also been studies in which people are assigned different goals on two different tasks. Typically, whichever goal is given priority has the strongest effect on a person's performance.

**Goals Above the Individual Level**

There have been many studies of goal setting at the group level. They show that goal setting works equally well at the group level; the same principles noted above apply. Goal effects have also been studied at the organizational unit level within management by objectives programs. In programs in which there was strong organizational commitment, goal setting had a beneficial effect on unit performance.

**Evolution**

The roots of goal-setting theory lie in biology rather than in electro-mechanical engineering as in the
case of control theory. The basic principle involved is that life is a process of goal-directed actions; an organism’s survival is conditional on its fulfilling its needs. This applies to single-celled organisms, plants, and animals, including human beings. Much goal-directed action is automatic, built in through evolution (e.g., the root growth of a tree or plant, the internal body systems of animals and humans). The goal of such systems is the survival and well-being of the organism. Among the higher organisms, the faculty of consciousness comes into play, and it is also critical to survival. The organism can perceive the external environment and, responding to its own needs, make choices that guide its actions toward need-fulfilling goals. In human beings, these choices are directly (the choice to think) or indirectly (actions) volitional—that is, not necessitated by prior circumstances.

The first goal-setting study was a laboratory experiment conducted in 1935 in England. But it was not analyzed with statistics. Programmatic goal-setting research was begun in the 1960s. The key method used was in defiance of the policies of contemporary journals, which required that hypotheses be deduced from preexisting theories. In practice, this meant that a lot of theories were “discovered” after the fact to justify the hypotheses. Goal-setting theory was developed by induction, consistent with the way that the hard sciences were developed. Close to 400 studies were conducted by many researchers over a period of some 25 years before the findings were integrated into an actual theory in 1990. Many of these studies were conducted by Edwin Locke and Gary Latham, but others, too numerous to list, did their own studies independently.

Locke and Latham consider goal theory to be an open theory in that new developments to modify, broaden, and refine the theory are expected and welcomed. Since 1990, there have been a variety of new developments and discoveries.

Goals as mediators. There is evidence that goals, along with self-efficacy, mediate or partially mediate the effects of personality traits such as conscientiousness or quasi-traits such as goal orientation. These two variables also mediate the effects of feedback on subsequent performance. Goals and self-efficacy also partially mediate the effects of incentives. Goals mediate the motivational effects of participation in decision making (to the degree that participation affects goal difficulty level). All this makes sense when the goals are task and situationally specific as well as directive.

Proximal and distal goals. Proximal goals refer to goals that are nearby or close in time, and distal goals refer to goals that are farther away or distant in time. There are no fixed definitions of the actual time spans involved because these vary with the circumstances. For example, in a laboratory experiment, the distal goal might be for the end of the experiment and the proximal goals might be for each trial. In a field experiment (e.g., weight loss), the proximal goal might be for a week and the distal goal for a specific number of pounds to lose in a month. The usual finding is that distal goals work better when they are accompanied by proximal goals. The advantage of proximal goals is that, assuming they are accompanied by feedback, people can see how well they are progressing toward the distal goals. They can change their strategy where necessary to attain the distal goal and/or increase their effort to attain it. Also, nearer goals may be more psychologically “real” than a distant goal over the horizon. In the real world of work, of course, changing circumstances may require changing strategy, even frequent revisions, of both proximal and distal goals. In a dynamic environment, organizations need to be flexible and nimble.

Group versus individual conflict. Goal conflict undermines performance. In a group setting, priorities need to be made clear. If individual and group goals are not consonant, group performance will be undermined.

Learning goals. It was noted earlier that when people are confronted with a new complex task, performance goals may work less well than do-best goals because in a rush to get results people do not develop effective strategies. The solution is to use learning goals. Learning goals ask people to focus not on outcomes, but on learning the best strategies for performing the task. Learning goals may be specific (learn five strategies to perform this task) or general (learn strategies to perform this task). Often, these work better than do-best performance goals and/or specific high-performance goals. This assumes people can learn relevant strategies. A question that arises with learning goals is this:
Do you need performance goals too? In some cases, learning goals work without performance goals because the strategies are good ones and people choose to apply them. But the risk is that learning goals could become ends in themselves and not be consistently and aggressively applied. Some recent research suggests that learning and performance goals can successfully be used at the same time, at least if the task, though new, is not too complex. This is a question that warrants a great deal more research.

**Goals and subconscious priming.** Recent research in social psychology has found that goals can be subconsciously primed. One way to do it is to give participants sentences to unscramble, many of which include achievement-related words such as try, achieve, strive, attain. Then they are given a new task to perform. Another priming method is to show a single picture of a runner crossing the finish line. Primed subjects perform better than nonprimed subjects yet show no awareness of having been primed. This has been found to work even in an employment setting. When conscious goals and priming are done in the same study, both show significant effects on performance.

**Enlarging the domain.** Goal-setting theory has been used successfully in (a) human resource management, (b) promoting creativity, (c) sports, (d) rehabilitation and promoting health behaviors, (e) entrepreneurship, (f) education, (g) psychotherapy, and (h) the field of bargaining and negotiation.

**Importance**

Goal theory was formulated based on close to 400 studies, using some 40,000 participants, 88 different tasks, data from eight countries, and time spans from 1 minute to several years; using experimental and correlational designs; in laboratory, simulation and field settings; using self-set, assigned, and participatively set goals; and employing many types of dependent variables, including both performance outcomes and behavior on the job. Meta-analyses have reported effects sizes ranging from \( d = .42 \) to \( d = .82 \). Goal-setting theory has been rated as the most important and valid theory in organizational behavior and industrial/organizational (I/O) psychology textbooks. Goal setting is used in some form by virtually all organizations. The General Electric company under Chairman and CEO Jack Welch was influenced by goal theory. Longitudinal studies have shown that goal setting helps to promote organizational growth. Why is this so? Goal setting works because it affects a person’s choices; it gives direction to an individual’s pursuits. Moreover, a specific, high goal increases a person’s effort, prolongs persistence, and cues a search for strategies to attain it. A goal is a regulatory system for monitoring, evaluating, and adjusting one’s behavior. Goals provide meaning to otherwise meaningless tasks. They give people a sense of accomplishment. In short, the attainment of specific high goals increases a person’s effectiveness, a universal need.

**Edwin A. Locke and Gary P. Latham**

**Further Readings**


GROUP DEVELOPMENT

The central premise of the theory of group development is that, to be most effective, small groups must progress through a series of developmental stages—forming, storming, norming, performing, and ultimately adjourning. Relatedly, the theory's purpose is to inform how groups conceive of and interact during the various stages of group life. In the domain of management, the theory assists both managers and their team members by providing a theoretical lens through which to view the tasks and challenges associated with each stage of group development. I begin by providing a description of the theory and its fundamental elements. Next, I describe how the theory has developed over a period of more than 40 years and added a fifth stage. I then describe the impact of the theory on management scholars and educators, as well as managers themselves.

Fundamentals

The model I proposed of developmental stages for various group settings over time were labeled (1) testing and dependence, (2) intragroup conflict, (3) development of group cohesion, and (4) functional role relatedness. The corresponding stages of task activity were labeled (1) orientation to task, (2) emotional response to task demands, (3) open exchange of relevant interpretations, and (4) emergence of solutions. But I summarized the four stages as forming, storming, norming, and performing. I provided a developmental model of group process by organizing and conceptualizing existing research data and theoretical precepts rather than by presenting original empirical data to support my model.

Only one empirical study could be found to test my hypothesis. Philip J. Runkel and colleagues studied three groups of 15 to 20 college students in a classroom setting. The task of each group was to decide on a project, collect and interpret data, and write a final report. During meetings of the work group, 16 observers, armed with descriptions of my model of stage development, observed the group until something happened that fitted a behavior described by me as belonging to one of the four stages of group structure or task activity. The observers rotated among groups in an effort to reduce observer bias. Ratings from observers supported my theory of group development, dubbed Tuckman's hypothesis. Moreover, I amended my model to include a fifth stage, labeled adjourning. Other researchers such as J. Stephen Heinen and Eugene Jacobson also arrived at the conclusion that groups do appear to develop and grow in an orderly, predictable manner and have tended to follow the same pattern.

It is noteworthy that since 1965 there have been few studies that report empirical data concerning the stages of group development. It is also of interest that most authors, although writing from a theoretical framework, call for further research to verify their hypotheses. A virtually untapped field is the empirical testing of existing models of group-stage development. A major outcome of this review has been the discovery that recent research posits the existence of a final discernible and significant stage of group development—adjourning. The model now stands: forming, storming, norming, performing, and adjourning. A description of the core elements and insights of each stage follows.

Forming. Groups initially concern themselves with orientation accomplished primarily through testing. Such testing serves to identify the boundaries of both interpersonal and task behaviors. Coincident with testing in the interpersonal realm is the establishment of dependency relationships with leaders, other group members, or preexisting standards. It may be said that orientation, testing, and dependence constitute the group process of forming.

The core characteristics of the forming stage include orientation, testing, dependence, and establishing group rules and boundaries for interpersonal and task behaviors. Group members must develop awareness of one another's traits and expectations at the outset. By testing rules and boundaries, group members begin to get a sense of where these limits actually lie. Often, eager to take action, group members spend too little time in the forming stage, a deficit that impedes future group progress. As the saying goes, without a strong foundation, the whole house can crumble.

Storming. The second point in the sequence is characterized by conflict and polarization around interpersonal issues, with emotional responding in the task sphere, thus causing resistance to group influence and nonparticipation. These behaviors, serving
Group Development

as resistance to group influence and task requirements, may be labeled as storming.

During the storming stage, conflict between group members is most apparent. The conflict may take the form of either perceptible behavior, from nonresponsiveness to venting of frustrations, or less noticeable ones, such as disappointment or irritation. In either case, the storming stage is important because it makes apparent which group expectations and requirements need to be addressed for the group to move forward.

Norming. Resistance is overcome in the third stage in which in-group feeling and cohesiveness develop, new standards evolve, and new roles are adopted. In the task realm, intimate, personal opinions are expressed. Thus, we have the stage of norming.

During the norming stage, conflicts and issues made apparent during storming become resolved. Group members recognize ways in which the requirements of their group must change, their roles must shift, or both. The revised norms that result are often more nuanced and durable than those established at the outset, because they have been tested by actual conditions and revised based on the realities of the task demands.

Performing. The group then can attain the fourth stage, in which the interpersonal structure itself becomes the means by which task activities take place. Roles develop flexibility and greater functionality, and group energy is channeled into the task. Structural issues have been resolved, and structure can now become supportive of task performance. This stage can be labeled as performing.

As a group enjoys the performing stage, they see true progress and productivity. The degree of effectiveness is greater than at any other stage in the process. The group dynamics allow actions to take place, because the actors understand their best roles within the group and have developed commitments to both the task and their collaborators. In this case, the whole is truly more than the sum of its parts, and the history of the group’s progress lends momentum to what the members strive to accomplish.

Adjourning. A fifth stage, adjourning, was added to the model in 1977. This stage, explained more in the following section, represents a time when group members depart from the formal group, and often from one another. Adjourning usually occurs as a function of the task itself, such as when the group has accomplished what it initially set out to do. This stage is also referred to as termination.

Evolution

As an undergraduate psychology major at Rensselaer Polytechnic Institute in Troy, New York, I focused my senior honors thesis on instruction and learning. This reflected my strong practical interest in how people learn real information in real settings. My interest in the psychology of human learning led to graduate work at Princeton University under the mentorship of the influential learning psychologist Robert Gagne. In 1963, I obtained a PhD in psychology from Princeton. My dissertation study was published in 1964 under the title “Personality Structure, Group Composition, and Group Functioning.”

The study was supported by the Office of Naval Research and was initially presented at the 1963 meeting of the Eastern Psychological Association. It was designed to examine whether individual personality traits of group members influenced group functioning. This study reflected my interest in group development and specifically recommended further research into the development of emergent group structures.

In June, 1965, some 47 years ago, I published an article in the Psychological Bulletin titled “Developmental Sequence in Small Groups.” I had just completed my PhD in psychology at Princeton University and had obtained a position at the Naval Medical Research Institute (NMRI) in Bethesda, Maryland. A senior colleague of mine, Irwin Altman, had been collecting research on the topic of small groups and passed it on to me with his blessing. My challenge was to do something productive with it, and I set my mind to work. I located 50 articles from Altman’s collection that ranged from therapy group studies, T-group studies, and natural and laboratory group studies and separated them into those descriptive of social or interpersonal group activities and those descriptive of group task activities. I proposed four general stages of development, and the review consisted of fitting the stages identified in the literature to those proposed. In the social realm, these stages in the developmental sequence were labeled testing-dependence, conflict, cohesion, and functional roles. In the task realm,
they were labeled as orientation, emotionality, relevant opinion exchange, and the emergence of solutions. A good fit was found between observed stages and the proposed model. Further study of temporal change as a dependent variable via the manipulation of specific independent variables was suggested.

In August 1984, my original article, described above, was featured under the title “This Week’s Citation Classic” in *Current Contents* on August 20, 1984. Based on a review of 50 articles describing stages of development in therapy, T-, natural and laboratory groups, a model of small-group development was proposed. Four stages, covering both group interpersonal and task activities, were described and labeled *forming, storming, norming,* and *performing.* The *Science Citation Index* and the *Social Sciences Citation Index* provided an indication that this article has been cited in over 165 publications since 1965. The story of how this came to be is described below.

My first professional job was as part of a small group of social psychologists in a “think tank” setting studying small group behavior as the U.S. Navy prepared for a future of small crew vessels and stations. Nine of us at the Naval Medical Research Institute were busy studying small groups from all perspectives and under all conditions. I was fortunate to have an experienced and talented boss by the name of Irwin Altman, who had been collecting every article he could find on group development. He turned his collection over to me and suggested that I look it over and see if I could make anything out of it.

The collection contained 50 articles, many of which were psychoanalytic studies of therapy or T-groups. The task of organizing and integrating them was challenging. After separating out two realms of group functioning—namely, the interpersonal or group structure realm and the task activity realm, I began to look for a *developmental sequence* that would fit the findings of a majority of the studies. I hit on four stages going from (1) orientation/testing/dependence to (2) conflict to (3) group cohesion to (4) functional role relatedness. For these I coined the terms: *forming, storming, norming,* and *performing*—terms that would come to be used to describe developing groups for the next 46 years and which probably account for the paper’s popularity.

There still remained the task of getting the paper published, and that was no mean feat. Lloyd Humphreys, then editor of the *Psychological Bulletin,* turned it down, offering me constructive editorial criticism but concluding that the reviewed studies themselves were not of sufficient quality to merit publication. I was persistent, though, and rewrote the manuscript according to his recommendations and sent it back to him despite his initial outright rejection. I pointed out that I was not trying to justify the collected articles but to draw inferences from them. Humphreys did a complete about-face and accepted my argument and my manuscript and, in short order, it appeared in print.

I ordered, thanks to the Navy, 450 reprints and used them all to fill requests within the first 3 or 4 years after the article appeared. Requests came from all over the world and from a wide range of disciplines, and I have saved some of the more exotic ones. Almost yearly, I received a request from someone to use parts of the article or at least the terms *forming, storming, norming,* and *performing* in print. Again, quotability may be the key to success. The labeling of the stages of small-group development had given the group development concept a functional model of how groups advanced through a series of four stages and how those stages could be facilitated.

In 1977, 12 years after the publication of the original *Psychological Bulletin* article, I published by invitation an update of the model in a journal called *Group & Organization Studies*—in collaboration with Mary Ann Jensen. It was labeled “Stages of Small-Group Development Revisited.” Mary Ann Jensen joined me in reexamining the stages by looking at published research on small-group development done in the prior 10 years, which would constitute an empirical test of my theory that groups go through the stages of forming, storming, norming, and performing. We reviewed 22 studies that had appeared since the original publication of the model, which we located by means of the *Social Sciences Citation Index.* We set out to directly test this hypothesis, although many other hypotheses could be related to it. These articles, one of which dubbed the stages “Tuckman’s hypothesis,” tended to support the existence of the four stages but also suggested a fifth stage for which a perfect rhyme could not be found. Following a review of these studies, a fifth stage, adjourning, was added to the hypothesis, and more empirical work was recommended.
Importance

In 2001, my theory of small-group development was included by invitation as part of a special issue on group facilitation. The title of the issue was *Group Facilitation: A Research and Applications Journal*. The editor of the journal, Sandor P. Schuman, included the following statements:

Although other articles in this special issue suggest the limitations of “stage models” such as this, the memorability and popularity of Tuckman’s model make this article required reading for every group facilitator. Were we to conduct a survey to assess the current state of knowledge regarding group development, I suspect that the response we would receive most often would include something about *forming, storming, norming, performing, and adjourning*. We owe this memorable characterization of stages of group development to Bruce Tuckman who introduced this oft-cited naming scheme in 1965. We are pleased to reprint his hallmark article.

In February, 2010, *Human Resource Developmental International* published “Perspective: 40 Years of Storming: A Historical Review of Tuckman’s Model of Small Group Development,” written by Denise A. Bonebright. My model was listed as the one “most predominately referred to and most widely recognized in organizational literature” (Miller, 2003, 122). According to Bonebright, Tuckman’s 1965 work was cited in 1,196 articles and Tuckman and Jensen were cited in 544. In 2003, Miller analyzed my model and concluded that there is a high degree of consistency in the description of the stages but numerous theorists who view the developmental process as more complex than can be seen in linear models like my own. Nevertheless, Bonebright saw my model as a useful starting point for team development practitioners because it was “accessible, easy to understand, and flexible enough to apply to many different settings.” It became popular in management and practitioner literature. In a survey of professionals, 250 different models were being used in team development practice, of which my model was most commonly mentioned by 16% of respondents.

My model began to appear frequently in the scholarly literature, was regularly listed as a reference on group development theory, and was widely applied to research on work groups. I began to receive frequent requests for permission to use my theory on a daily or weekly basis and most typically granted it. Requests come from all over the world and typically include a visual exhibit of the stages of team development. Book authors write to me, lawyers write to me, professional organizations write to me, instructional designers write to me, colleagues write to me. Requests come from universities, and corporations and organizations all over the world. Doctoral candidates write to me. The Council of Europe wrote to me. The State of Hawaii wrote to me. Pearson Education wrote to me. XanEdu wrote to me. Anyway, I’m sure you get the idea! My fame, if you can call it that, has been and is a mixed blessing. But if nothing else, it does make a wide range of people become aware of and use those now famous words: forming, storming, norming, and performing. And I do get the opportunity to shake someone’s hand and say, “Yes, I am the person who coined those famous terms!”

My most recent and possibly last venture into the stages of group development also took place in 2010 when I was invited to write a review of a new book called *Leadership Teams: Developing and Sustaining High Performance*. The emphasis of the book is on working with teams using a six-stage model (rather than a four- or five-stage model with which I am more familiar) and a focus on leadership and teamwork. The first group development stage has four elements: forming the group (sounds familiar!), creativity and innovation (mobilizing goals and objectives), decision making, and allocating resources and ways of working. It sounds a bit like “forming,” but with more detail that is based primarily on my ingrained way of thinking. The big question is, “Do I agree with what the leader is asking this group to do?” An illuminating case study runs through the entire book to help answer these questions.

The second group development stage is confrontation. Could that be “storming”? It reflects the inevitability of conflict in complex organizations. This stage is divided into two elements: understanding conflict and managing conflict, and that conflict can be either task conflict or relationship conflict, based on different points of view leading to deterioration and losing sight of the goal. Open criticism, interpersonal conflict, and loss of interest lead to rejection of the leader. The authors recommend that managers should expect conflict but avoid personal attacks and try to improve relationships by managing conflict.
Group Polarization and the Risky Shift

The third stage is coming together, with two elements: work-based relationships (showing the difference between a group and a collection of individuals) and working in groups (building a network of relationships and shifting focus to the group). A detailed list of leadership behaviors is required. Would this be “norming”? So far, we are following the pattern.

The fourth stage changes the linear pattern of the preceding stages. It is called “one step forward, two steps back.” Group members are faced with the question, Do I accept the role I will have to play in this group? Group members often resist cultural change, preferring to stick with their own culture. Previous courses of action are taken for granted. The group’s slipping back into conflict smacks of confrontation (Stage 2). The process stalls, the group splits into factions, and a leadership battle ensues. It becomes personal. To help group members deal with cultural change, leaders must help them develop competencies required to perform a job and the willingness to apply competencies within a particular context. Enlisting key managers’ support becomes a factor.

The fifth stage involves turning a group of people into a team, a “team” being a small number of people with complementary skills who are committed to a common purpose and approach for which they hold themselves personally accountable. The authors list indicators as a benchmark that the team has entered the behaving as one stage (or is this norming?). It includes agreement on a goal, shared and distributed leadership, and a strong leader. Team members need to be part of the decision-making process.

The sixth and last stage is facing the future, meaning managing yourself and developing leaders. It makes me think of “performing.” It includes listening, reflecting, taking initiative, reaching out to others, controlling anxiety, not taking criticism personally, building trust, and working to gain credibility and support.

The essential difference between the Sheard model of group development and the Tuckman model, at least as I see it, is that the Sheard model has added a new touch—namely one step forward, two steps back—whereas the Tuckman model offers forming, storming, norming, performing, and adjourning. Without one step forward, two steps back, the two models would appear very similar, but not quite the same. That is why we have options, and options are good things to have!

Bruce W. Tuckman

See also Business Groups; Conflict Handling Styles; High-Performing Teams; Norms Theory; Organizational Development; Work Team Effectiveness

Further Readings

Group Polarization and the Risky Shift

Group polarization can be defined as an enhancement of group members’ preexisting tendencies accomplished through some form of group-induced communication or interaction. Group polarization is most likely to occur in groups in which the members initially hold tendencies that can be defined as leaning toward one or the other end of a continuum. In such cases, group interaction can lead individual
members and the group as a whole to move farther away from a middle-of-the-road position and toward a more extreme opinion or intention to act. The term group polarization also calls attention to the phenomenon that interacting with others in a group, or merely listening to members of a group interact, can lead individuals to become more committed to and sure of the correctness of their preferences, even as those preferences become more extreme. In this sense, the word polarization refers to the tendency to move toward one of the “poles” at either end of a continuum and to become more certain of the correctness of one’s position. The fundamentals and importance of group polarization are discussed in the following sections.

**Fundamentals**

The concept of group polarization has an interesting history. It was first explored in the context of individual and group risk taking by James A. F. Stoner, a student at MIT’s graduate school of management completing a master’s thesis with his adviser, Donald G. Marquis, a well-known psychologist. While working on a term project in Warren Bennis’s course on leadership, Stoner discovered that his own conviction that groups are more cautious than individuals was very widely shared (a “known fact”) but did not seem to have been demonstrated experimentally. To test the hypothesis about the cautiousness of groups, his study compared decisions involving risk by individuals deciding alone and then deciding as members of a group. To assess individual riskiness, he arranged for 91 management graduate students to answer a 12-item questionnaire in which they advised fictitious individuals how much risk to take in a variety of situations. About a week after completing the questionnaire as individuals, 78 of those students were assembled into six-person groups and reached consensus decisions on all 12 questionnaire items. The group decisions were quite different from the initial individual decisions, but the 13 control subjects who completed the same questionnaire again, also after about a week, showed essentially no change in their decisions.

The results were startling. Not only were the group decisions not more cautious, they were strongly more risky on the questionnaire as a whole. Within a few months that “risky shift” was replicated in a study of male and female groups at a Colorado university. And soon a great many other studies replicated and explored aspects of the risky shift in a variety of experimental situations in a variety of countries and with a variety of types of individuals. The risky shift was reliable, robust, and easy to demonstrate in a classroom in 1 hour—a real gift to teachers dealing at that time with another “known fact”—the often voiced student and cultural attitude that “you can’t predict human behavior.” And it was counterintuitive—“Everyone knew groups were more cautious than individuals.” But now they were being significantly more risky.

As easy as it was to demonstrate the risky shift in an experimental situation and to show in the classroom that human behavior could be predicted, there was one frequently overlooked anomaly among the 12 items in the original questionnaire. The 12th item involved a couple that was deciding whether or not to get married. They had been advised that a happy marriage was possible “but not certain.” The MIT and Colorado male students did not demonstrate the risky shift but actually became significantly more cautious on that decision. But the female groups in Colorado actually shifted in the risky direction, and that shift was also statistically significant.

**From Risky Shift to Group Polarization**

A series of experiments explored hypotheses about why groups might become more risky. Marquis tested the possibility that there might be a “diffusion of responsibility” but found no support for that hypothesis. M. A. Wallach and his colleagues, on the other hand, did find considerable experimental support for that hypothesis.

However, the possibility of a cautious shift was a particularly compelling challenge to diffusion of responsibility as a general causal factor in risky shifts. Frode Nordhøy, a subject in the first risky shift experiment and another of Marquis’s thesis students, demonstrated the possibility of more cautious shifts just a year after the first study. In 1967, Stoner demonstrated both risky and cautious shifts and the possibility that “widely held values” might predict the direction of the “shift”: Values favoring risky courses of action would lead to risky shifts in group decisions and values favoring caution would lead to cautious shifts.
The existence of risky and cautious group shifts led to research that suggested the risk/caution aspect of group impacts on decision making were not unique but might be a subset of a larger phenomenon. This larger phenomenon would be a shift to more extreme opinions and decisions in a wide domain of opinions and preferred actions—what Serge Moscovici and Marisa Zavalonni called “group polarization”: Discussion typically strengthens the average inclination of group members. A considerable body of experiments has demonstrated such a process in many nations and under a wide variety of topics. Group polarization is now the widely accepted interpretation of the phenomenon originally hinted at in the original risky shift discovery.

**Hypotheses About How and Why Group Polarization Occurs**

Two current hypotheses about why group discussion among initially like-minded individuals tends to lead to greater polarization of those members’ initial tendencies involve the information provided in discussions and the social comparisons the discussants seem to make.

On the first hypothesis, information provided in discussions tends to favor initially preferred alternatives, leading to greater confidence in even more extreme positions. With the content of a group discussion being biased toward initially preferred alternatives, individuals in the group learn additional information that favors their own initial opinions, listen to their own reasons for holding the opinions they hold—thus becoming more confident of those opinions—and discover new ways to deal with facts or perspectives that would argue against or moderate their original position. They become even surer of the correctness of their initial opinion and are inclined to go even further in the direction in which they were originally headed, supported and encouraged by the rhetoric they are creating and sharing with the other like-minded members of their group.

The second hypothesis focuses on individuals’ desire to see themselves as different from others on some aspect of life: more “liberal” or “conservative,” more risky or cautious, more committed to a course of action, or more rejecting of that course of action. If group interaction leads them to discover they are not as different from others as they had assumed, they can reestablish their desired distance from others by becoming a bit more extreme in their opinions or preferred course of action. For example in Stoner’s early work, individuals frequently thought they were being bold risk takers when they recommended a moderately risky final football play that would guarantee victory if successful but defeat if not successful rather than settling for a safe play that would guarantee a tie for their team. However, when group discussion revealed that their initial position was not as bold as they had thought, they often became advocates of an even bolder play . . . with even less chance of success. The emergent argument that “playing for a tie is for sissies” not infrequently yielded the selection of a play with almost no chance of success.

**Importance**

The tendency for discussion among like-minded individuals to enhance the initial tendencies of the discussants has been demonstrated in many situations. For example, group interactions have led to (a) increasing French students’ initially favorable attitudes toward the French president and their initially negative attitudes toward Americans, (b) increasing the prejudicial statements of initially prejudiced American high school students, (c) increasing the severity of initially guilty traffic accident judgments by Japanese students and increasing the amount of recommended damage awards among jurors initially inclined to award damages, and (d) increasing the willingness of U.K. discussants to discriminate against already disrespected immigrant groups. The phenomenon can also contribute to enhanced benevolence, such as increased concern for social justice and commitment to take positive actions among initially concerned Australians and decreased prejudice among initially less prejudiced individuals. And it can even occur when individuals are merely listening to discussions that are consistent with their initial preferences.

Increased extremity of opinions and increased intentions to act among initially like-minded individuals can occur on subjects where the actions will be healthy for relationships, organizations, and societies. However, the opposite can also be the case. When individuals separate themselves from a diversity of viewpoints and values and surround themselves with only those who hold similar
opinions and views of the world, they can become more and more convinced of opinions and actions that become progressively more extreme, leading to the dangers of “groupthink,” destructive investment actions rife with “moral hazard,” ill-advised business decisions such as Goldman Sachs’ decision to construct and sell to its clients securities that were designed by another client to become worthless, business strategies such as Enron’s manipulation of the California energy market, and U.S. foreign policy decisions such as the military invasion of Iraq.

**Dealing With the Tendencies Toward Polarized Decisions and Actions**

The theory of group polarization and the extensive research findings that led to and support the theory are calls for managers to recognize the dangers of insular, isolated, like-minded groups in organizations. The temptation to hire, promote, feel comfortable with, socialize with, and rely on like-minded individuals is a very strong one, and a very human tendency. But it carries with it significant dangers: not just the dangers of making extreme and thus frequently poor decisions—because of their extremity—but the added danger of becoming so sure of those extreme decisions that it is even harder to see and admit when those decisions are yielding progressively worse outcomes.

Too often, the focus on “managing diversity” is seen as addressing and finding ways to handle the complexities and difficulties that occur when nontypical individuals are being incorporated into organizational membership and processes. Beyond any legal or social justice arguments for the need for diversity in organizations, the group polarization perspective suggests that it is exactly those “nontypical” organizational members, with their frequently differing viewpoints, who may be the greatest bulwark against the dangers of groupthink and extreme decisions, perceptions, and actions that like-minded individuals can be so prone to.

In a similar vein, the group polarization phenomenon suggests the advantages of bringing a devil’s advocate—a voice of contrary opinions—systematically into managerial decision processes, just as John F. Kennedy is believed to have done, with considerable apparent success, during the Cuban Missile Crisis of 1962.

*James A. F. Stoner and David G. Myers*

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**Group Punctuated Equilibrium Model**

The punctuated equilibrium model (PEM) of group development was first proposed by Connie Gersick in 1988. This model argues that instead of developing gradually over time as proposed by classic linear group development models, work groups progress through long periods of inertia punctuated by concentrated revolutionary periods of quantum change, hence the term “punctuated...

**Further Readings**


equilibrium” model. The PEM is one of the most cited group development theories in recent management literature; it represents a paradigm shift from the classic linear models that have dominated the group development literature since the 1950s. The following discussion introduces the fundamentals of the theory, how it differs from the classic linear models, the empirical evidence supporting and refining the theory, and the implication for practice.

Fundamentals

The PEM asserts that groups undergo a two-phase (rather than two-staged) developmental pattern. In Phase 1, groups go through an initial period of inertia, the direction of which is set by the end of the group’s first meeting. Phase 1 lasts for half of a group’s allotted time. At the midpoint of the group’s allotted time, the group undergoes a transition that sets a revised direction for Phase 2, a second period of inertia. In addition, Gersick noted that a group’s progress is triggered more by members’ awareness of time and deadlines than by completion of an absolute amount of work in a specific developmental stage. Moreover, “halfway” emerges as the most likely moment at which groups will call attention to time or pacing. The midpoint acts as a reminder of the approaching deadline, which interrupts the group’s basic strategies at Phase I and facilitates the midpoint transition and thus the onset of Phase II.

Empirical support for the PEM was first presented by Gersick in her initial field study in which she observed eight naturally occurring groups over time and found consistent patterns of two-phase (rather than two-stage) development in these groups. Out of the eight groups observed, Gersick found that (a) every team exhibited a distinctive approach to its task as soon as it commenced and stayed with that approach through a period of inertia that lasted for half of its allotted time and (b) every group then underwent a major transition at precisely halfway between its first meeting and its official deadline, despite wide variation in the amounts of time the eight teams were allotted for their projects (ranging from 1 week to 6 months). During the transition, groups dropped old patterns, renegotiated with outside supervisors, adopted new perspectives on their work, and made dramatic progress. (c) The events that occurred during those transitions, especially a group’s interaction with its environment, shaped a new approach to the task for each group. Those approaches carried groups through a second major phase of inertial activity, in which they executed plans created at the midpoint transitions. This pattern of finding was replicated the following year in a laboratory study using experimental groups with a 1-hour life span. Gersick observed eight groups of MBA students (six groups of three members and two groups of four) designing a commercial advertisement over a 1-hour period of time and found very similar patterns of midpoint transitions. However, the transitions of the laboratory groups were less likely to be influenced by outside stakeholders.

Immediately after the publication of group PEM research, reviewers concluded that this new understanding of change processes challenged the traditional “linear” models of group development, which (a) conceptualized change as a gradual and incremental process, (b) assumed that groups progress through a logical sequence of stages over time, and (c) proposed that groups become more effective as they progress to later stages of development at least until the group moves into the final stage of decline and termination.

Gersick argues that the PEM differs from the traditional gradualist models in the following ways:

- Traditional models (gradualist models) assume that systems can accept virtually any change, at any time, as long as it is small enough. In addition, it is assumed that large changes result from accumulative small changes. In contrast, the PEM suggests that for most of the groups’ history, “there are limits beyond which change is actively prevented, rather than always potential but merely suppressed because no adaptive advantage would accrue.”
- The PEM disputes the idea that individual systems of the same type (i.e., groups with similar natures) all develop along the same path and that systems develop in “forward” directions, as in stage theories of group development.
- The PEM suggests that conflicting theories about a group’s adaptability and rigidity are applicable at different times, depending on whether the group is in a period of equilibrium or transition.
- The PEM suggests that a system’s basic organizational principles are varied and
changeable and that we should apply with caution theories based on universal “drivers” such as efficiency. That is, we should apply the appropriate theory that suits the particular “phase” or “transition” a group is in at the time.

In 2003, Artemis Chang, Prashant Bordia, and Julie Duck published a counterview that argued that rather than contradicting linear models of group development, the PEM complements them. They argued that the linear models describe changes at the more micro level within each “phase” of inertia and that a transition marks the shift of a group’s behavioral pattern from earlier stages to more structured and productive stages of group development. Incorporating advancement of knowledge in natural sciences (e.g., evolutionary biology) about the PEM, Chang and colleagues contended that groups as systems have multilevels of deep structures and that the level of deep structure at which changes take place determines the observed incremental or revolutionary pattern. In other words, when changes occur in more surface-level structures, incremental changes are observed. On the other hand, revolutionary changes are observed when changes occur at a more fundamental level.

Importance

Subsequent empirical researches found some support for the PEM. Chang and colleagues replicated Gersick’s laboratory study with a larger number (25) of groups and reported both linear and punctuated equilibrium patterns of group development, albeit on different dimensions. Specifically, the PEM described changes in a group’s time awareness, pacing activities, and task activities over time, whereas the linear model described changes in a group’s structure and that level of deep structure at which changes take place determines the observed incremental or revolutionary pattern. In other words, when changes occur in more surface-level structures, incremental changes are observed. On the other hand, revolutionary changes are observed when changes occur at a more fundamental level.

Computer-mediated groups fit the robust equilibrium pattern best, and face-to-face groups fit a bi-stable punctuated equilibrium pattern best.

Stephen Lim and J. Keith Murnighan examined the PEM with groups working on mixed-motive tasks (i.e., negotiation). They found that in a negotiating task, the number of messages and activities displayed by the pairs involved in the negotiation remained constant over time, providing evidence inconsistent with Gersick’s model. On the other hand, temporal changes in concessions and pacing followed an exponential curve, which indicated either a sharp increase in these messages right before the deadline or a steady increase over time. Lim and Murnighan suggested that the nature of the task influences the pacing strategies chosen, and in the particular case of negotiation where individualistic motives are important, members might hold on to the individualistic motives until the end when a compromise has to be made for the benefit of the group. Lim and Murnighan concluded that their results did not necessarily challenge Gersick’s model; instead, they expanded the model in arguing that the nature of the particular task is important in determining the pacing strategies that a group employs.

Anson Seers and Steve Woodruff conducted two studies. The first investigated whether pacing was a group activity or an individual one. Study 2 compared the PEM against a linear model of group development. In 1997 Seers and Woodruff concluded from these studies that researchers should distinguish pacing activities from group development as a whole: “Pacing appears to be a task deadline-driven process, and group development appears to involve social factors which can extend beyond task-required interactions.” Seers and Woodruff proposed that Gersick’s model should be identified as a “group task progress” model instead of as a “group development” model. This important distinction converged with Chang’s assertion that both punctuated equilibrium and linear developmental patterns of group development can be observed, albeit in different dimensions.

Empirical research largely supports the group PEM, especially when it is used to examine pacing- and task-related activities in teams with limited life spans. However, the significance of the “midpoint” as the most likely point of the transition is yet to be established. The limited research so far suggests that the timing and nature of the transitions may vary
depending on the tasks. It is nevertheless important to understand that “timing” is critical when introducing changes to the team. The initial meetings of a team are essential in establishing routine patterns of behaving in newly formed teams; thus it is paramount to invest considerable resources in the planning of the first meeting to give the team the best opportunity to adopt the most effective approach to the task. Second, small internal or external changes can then be introduced to interrupt the group’s current state of inertia and create an environment of instability, which will in turn increase the group’s propensity for larger scale changes (the PEM). For example, replacing a group member can facilitate the group’s examination of current structure and processes and thus provide opportunities for introducing changes to one or both aspects. Once changes have been introduced, early developmental issues might need to be revisited to facilitate effective work under the new working conditions.

In today’s business environment, teams with diverse members distributed globally are commonly used to achieve complex organizational goals. It is particular important for the team leader to lead a discussion to establish the expected behavioral norm at project inception in this context. It is also important to set temporal milestones for the groups to review their progress; this will not only pace the group activities accordingly but also provide an opportunity to introduce changes needed to a group’s habitual routines. Note that the PEM focuses on pacing and task activities in teams, but we know from other research that trust and relationship management are critical to the success of large and complex projects. New generations of communication technology and the global trend of budget restriction have meant that more globally distributed teams are meeting face-to-face as often. However, meeting face-to-face initially to establish relationships and behavioral norms may still be an important step toward team effectiveness.

**Artemis Chang**

See also Business Groups; Group Development; High-Performing Teams; Process Theories of Change; Systems Theory of Organizations

Further Readings


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**GROUPTHINK**

Irving Janis proposed that highly cohesive groups are likely to suffer from *groupthink*, a strong concurrence-seeking tendency that suppresses critical inquiry and results in faulty decision-making processes and flawed outcomes. He chose the term *groupthink* because of its frankly Orwellian connotation, similar to doublethink and crimethink. Janis discussed as examples of groupthink major historical fiascoes such as the lack of preparedness for the Japanese attack on Pearl Harbor, the escalation of war in Korea, the failed U.S.-sponsored landing of anti-Castro rebels in the Bay of Pigs, and escalation of U.S. involvement in the war in Vietnam. First presented in a 1971 issue of *Psychology Today*, this groupthink phenomenon quickly gained remarkably broad and firm acceptance, dominating the literature on group decision making for decades. Janis reasoned that dealing with vital, affect-laden issues results in “hot” cognitions, in contrast to the “cold” cognitions of routine problem solving. Such situations induce stress, resulting in defensive avoidance,
characterized by lack of vigilant search, distortion of the meanings of warning messages, selective inattention and forgetting, and rationalizing. This entry describes the groupthink model and proposed remedies for groupthink. It then summarizes research evidence regarding groupthink, examines the bases for groupthink's remarkable appeal and acceptance, and addresses groupthink's usefulness for managers.

**Fundamentals**

*The Groupthink Model*

Janis presented three categories of antecedents to groupthink. First, moderate to high group cohesion is a necessary but not sufficient condition for groupthink. Structural faults and a provocative situational context are secondary antecedents. The structural fault category includes insulation of the group, lack of impartial leadership, lack of norms requiring methodical procedures, and homogeneity of members' social backgrounds and ideologies. The provocative situational context antecedents focus on the role of stress. These include external threats of losses combined with a low hope of finding a better solution than that of the leader and internal stress stemming from temporary low self-esteem attributable to members' recent failures and perceptions that the task is too difficult to accomplish and there is no morally correct alternative.

Janis viewed the antecedents as leading to symptoms of groupthink, including an illusion of invulnerability, rationalization to discount warnings and other negative feedback, belief in the inherent morality of the group, stereotyped views of members of opposing groups, pressure on dissenters, self-censorship, illusion of unanimity, and self-appointed “mindguards” acting to shield the group from adverse information.

Janis saw groupthink as resulting in consequences that interfere with effective group decision making. For instance, the group limits its discussion to only a few alternatives. After a course of action is initially selected, members ignore new information concerning its risks and drawbacks. They also avoid information concerning the benefits of rejected alternatives. Members make little attempt to use experts. And because they are so confident that things will turn out well, they fail to consider what may go wrong and, as such, do not develop contingency plans. These “defects” are seen as leading to impaired performance and other undesirable outcomes.

**Proposed Remedies for Groupthink**

Janis suggested several methods to prevent or minimize the supposedly dysfunctional consequences of groupthink. These “remedies” include the following: The group leader should encourage all group members to air their doubts and objections; leaders should adopt an impartial stance rather than initially stating their preferences; members should be encouraged to discuss the group's deliberations with trusted associates and report their reactions back to the group; outside experts should be invited to meetings and encouraged to challenge members' views; when a competitor is involved, time should be devoted to assessment of warning signals from the competitor and of alternative scenarios of the competitor's intentions; when considering alternatives, the group should split into subgroups to meet separately from time to time; the group should hold a “second-chance” meeting after a preliminary consensus is reached on a preferred alternative; and the group should consider using dissonance-inducing group processes.

**Importance**

Forty years after its conception, the groupthink phenomenon retains a remarkably strong intuitive appeal and acceptance. A Google search yielded almost 3 million groupthink “hits.” Groupthink is presented as received doctrine in sources ranging from *Educational Gerontology* to *The Utne Reader*, from *The New Criterion* to *Vogue* and is offered as the cause for everything from problems of the Washington Redskins to the U.S. decision to invade Iraq to success of Bernard Madoff’s Ponzi scheme. It has a firmly entrenched status with practitioners and continues to be presented as fact in textbooks and to be the subject of theory and research.

**Research Evidence Regarding Groupthink**

Janis demanded what Ramon J. Aldag and Sally Fuller have called a “strong” interpretation of groupthink, arguing that groupthink is not evidenced if just a few of its symptoms can be detected. Rather, Janis wrote, practically all the symptoms must be manifested, along with the antecedent conditions and signs of defective decision making. However, a “weak” version of groupthink implies that groupthink may be confirmed by the presence of some subset of these characteristics and that the causal ordering posited by Janis may be suggestive rather
than necessary. This view sees any partial support, regardless of the number of disconfirming findings, as evidence of groupthink’s validity.

One weak interpretation simply views groupthink as overreliance on concurrence seeking. This meaning, which seems to have gained considerable popularity, would grant no value added to groupthink. That is, overemphasis on concurrence seeking was widely recognized decades before Janis presented his model (for instance, by R. L. Schanck in 1932), and the groupthink model simply adopted this element. Another weak interpretation is that groupthink is an undesirable constellation of characteristics resulting from highly cohesive groups. However, research findings convincingly demonstrate that cohesiveness does not regularly lead to negative outcomes. More than 25 years ago, Matie L. Flowers stated that a revision of Janis’s theory may be needed, one that would eliminate cohesiveness as a critical variable. Such elimination would, however, largely eviscerate the groupthink phenomenon. Yet another weak view is that groupthink is any set of group processes that precede poor decision outcomes. However, it is not surprising that poor outcomes follow bad things. Further, since many group processes and characteristics leading to poor outcomes have long ago been identified, this meaning, in which groupthink most clearly adopts the form of a metaphor for dysfunction, essentially grants groupthink no status—and Janis no contribution—beyond that of providing a memorable label.

There has been virtually no empirical support for the strong form of groupthink (which, again, Janis demanded as convincing evidence). Most support for groupthink has come from retrospective case studies that have focused on decision fiascoes rather than comparing the decision-making processes associated with good versus bad decisions and that have sought just a sampling of groupthink characteristics as confirmatory. Support for the posited groupings and for links among groupthink characteristics generally derives from anecdote, casual observation, and intuitive appeal rather than rigorous research. There has been no full factor analysis of groupthink variables. Incomplete factor analyses (in which exploratory factor analysis was applied to variables within sets rather than to all variables in the model) support a simpler, and different, model from that presented by Janis. Won-Woo Park’s comprehensive investigation of Janis’s model supported only 2 of 23 predictions drawn from the groupthink model. Conversely, 7 of the 23 relationships were significantly opposite the direction predicted. Further, Jin Nam Choi and Myung Un Kim examined groupthink in teams facing impending crises. They found groupthink symptoms to consist of two factors. Contrary to groupthink predictions, one of those factors (termed group identity) was significantly positively related to team performance, whereas the other (termed concurrence seeking) showed an insignificant negative relationship to performance.

Addressing the most-cited recent example of groupthink, the Challenger disaster, Mark Maier—who developed a popular documentary on the topic—noted in 2002 that new evidence regarding the disaster and further analysis of past evidence convincingly demonstrates that the disaster emphatically is not an example of groupthink. He said two of groupthink’s defining features—the conviction of invulnerability and the illusion of unanimity—were conspicuously absent. Maier discussed evidence that the decision to launch was driven by uncertainties rather than perceived infallibility and that certain actions were taken only when it was clear that opinions would not be unanimous.

Bases for Groupthink’s Appeal

Writers have sought to understand bases for groupthink’s tremendous appeal and acceptance. One explanation is that support for groupthink benefits from availability, with which examples come to mind based on their vividness and reliance on case, as opposed to base, data; a concrete instance of the appearance of groupthink symptoms in a fiasco may be seen as compelling evidence, especially in the absence of base data.

Groupthink is consistent with implicit theories of groups. Individuals observing a situation in which some groupthink characteristics are present may assume the existence of others. Further, feedback about group performance affects the characteristics ascribed to those groups. For example, individuals told that a group has performed poorly are more likely to report instances of “poor” interaction processes, such as lack of willingness to hear other members’ views. Thus, focus on poor decision outcomes
in groupthink research may lead to reports of poor
group functioning.

Also, a focus only on the conjunction of group-
think characteristics and negative outcomes invites
illusory correlation. In this sense, the groupthink
phenomenon is similar to the “Friday the 13th”
phenomenon; only the yes (groupthink/Friday the
13th)—yes (poor outcomes/bad luck) cell is consid-
ered. If the yes–yes cell is not empty, support for the
phenomenon is inferred. In fact, of course, support
for the phenomenon requires examination of all
cells.

Further, the negative language of groupthink
(“victims of groupthink,” “defects of groupthink”) and
the focus on error invite distortions in responses
caused by scale-use tendencies and related psycho-
metric difficulties and may result in framing effects.
Individuals presented with negatively framed ter-
minology may adopt the readily available negative
frame and respond accordingly.

Groupthink support may also benefit from gen-
eralization from a part to a whole, in which a core
concept with some validity is incorporated as an ele-
ment of a broader, renamed concept. Support for
the core concept is treated as confirmation of the
broader concept and, by association, for its various
elements. In the case of groupthink, a core concept
with some validity (i.e., the dangers of overemphasis
on concurrence seeking) is subsumed in a complex,
essentially deterministic model. Subsequent instances
of that core concept are then presented as evidence
for the validity of the broader phenomenon.

Usefulness for Managers

Groupthink has stimulated research on group
dysfunctions; provided links to other literatures,
such as stress and vigilance; emphasized potentially
important variables in group decision making;
and encouraged policymakers to take remedies for
excessive concurrence seeking seriously. Indeed,
Janis’s recommendations for remedies for group-
think offer an excellent compilation of approaches
to help preclude group dysfunction. For example,
as noted earlier, Janis recommends approaches to
encouragement of group members’ airing of doubts
and objections as well as interaction with trusted
associates and outside experts, devoting time to
reevaluation of preferred alternatives, assessment
of warning signals, and application of dissonance-
inducing techniques.

However, while the groupthink model has been
valuable in generating interest in group problem-
solving processes, it has not incorporated four
decades of theory and research, has received limited
empirical support, and is restrictive in scope. Recent
tory and research, as well as critical evaluation of
the model, suggest that more comprehensive models
are necessary to guide researchers and practitioners
in dealing with group decision phenomena.

It is common for theories to generate initial wide-
spread interest and enthusiasm and to meet with
subsequent revision, rejection, or reaffirmation.
Groupthink, however, has generally resisted dispassion-
ate reevaluation, perhaps due to its raw intuitive
appeal and because studies of groupthink have often
been searches for confirmation. Rigorous evaluation
of the phenomenon is further rendered difficult by
the fact that there are a variety of views of group-
think and contrasting positions on what level of
evidence is needed to indicate support. Nevertheless,
popular acceptance of groupthink has been extraor-
dinary. Perhaps this is understandable: Groupthink
has served as a vivid bogeyman that can be readily
summoned to illustrate the dangers of overemphasis
on concurrence seeking, and it continues to serve its
purpose.

Ramon J. Aldag

See also Group Development; Group Polarization and
the Risky Shift; High-Performing Teams; Norms
Theory; Schemas Theory; Work Team Effectiveness

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Tonypany: Lessons from a quarter century of the


HIGH- AND LOW-CONTEXT CULTURES

Edward T. Hall, in his 1976 book *Beyond Culture*, proposed the idea of context to explain differences in communication styles across cultures. Context, understood as the information surrounding an event and inextricably bound up with its meaning, is described as a continuum with high and low context on either end. A high-context communication or message is one in which most of the information is either in the physical context or internalized in the persons engaged in communicating, while very little information is in the coded, explicit, transmitted part of the message itself. A low-context communication, on the other hand, is exactly the opposite; that is, the mass of the information is vested in the code. Here, the communicator is much more explicit, and words are chosen carefully to mean exactly what the communicator is attempting to convey.

Communication is widely recognized as a vital management issue because it contributes significantly to employee morale, behavior, and long-term success of an organization. In particular, as operations have become increasingly globalized and the workforce and clientele have become more diverse and multicultural, the need to communicate effectively has gained prominence. Miscommunication, or inability to convey and interpret meaning of the message as intended, can cost the organization in terms of unnecessary frustration, conflicts, and loss of productivity. Because context is important for how messages are coded and decoded, it is critical that managers develop a clear understanding of high- and low-context cultures in order to improve how they communicate and interpret how others communicate with them. This entry is first a description and explanation of the context model, including its main terms, its importance in cross-cultural management, and its interrelationships with other cultural dimensions. Next, an assessment of the validity and impact of the context model is offered, along with an evaluation of the degree to which it is supported by research and helps to explain management theory and practice. Finally, implications for future research are outlined.

**Fundamentals**

*Context, information, and meaning* are central terms in Hall’s concept and are presented as inextricably associated with each other. Hall has argued that a synthesis of context and information produces meaning, which is socially and environmentally constructed. There is no meaning without a combination of information and context; the same information with an altered context yields a different meaning. Consequently, meaning is the result of a cognitive combination of context and information.

In *Beyond Culture*, Hall argues that the level of context determines everything about the nature of communication and is the foundation on which subsequent behavior rests. This claim, linking context to communication to behavior, has been instrumental in advancing the concept of high-low context within cross-cultural management research. As the
pace of globalization has increased, the dissimilar communication practices and behaviors that became evident during business negotiations led researchers to conclude that these differences often emerge from contradictory cultural values and beliefs. Hence, high-low context emerged as a critical dimension for categorizing and contrasting national cultures in order to facilitate business communication (along with other dimensions, such as individualism-collectivism, uncertainty avoidance, time orientation, and power distance).

Essentially, the high-low context concept refers to the extent to which communication is carried by explicit, verbally expressed messages or is embedded in the context in which the message is conveyed. Lower context societies attach more meaning to the message itself. They emphasize direct and explicit communication. What is said is what is meant. In contrast, communication in higher context cultures involves subtle meanings embedded behind and around the words spoken. It requires paying much more attention to “reading between the lines” and understanding what the communicator really means through implicit, nonverbal cues. Tone of voice and facial expressions are important elements.

Modes of communication differ between higher and lower context cultures. The mode is implicit, interpretative, and emotional in a high-context culture but explicit, visual, and logical in a low-context culture. This entails difference in the contextualization of messages and the expected roles of the sender and receiver. Higher context cultures rely on the decoding skills of the receiver and focus on nonverbal gestures and cues. Lower context cultures concentrate on the encoding of the message and focus on using words precisely and appropriately.

Hall also emphasizes the difference in worldview of time and space between high- and low-context cultures. He argues that people from higher context cultures function on *polychronic time*, which is in line with their holistic thinking patterns, and those from lower context cultures prefer a *monochronic, sequential time* in line with their linear thinking and direct form of contextualization. This affects their time orientation, as lower context cultures plan and think in the long term, while high-context cultures have a shorter term planning range. Higher context cultures also tend to correlate with cultures that have a strong sense of tradition and history. They exhibit higher uncertainty avoidance and change little with time. This is in direct contrast with lower context cultures that are low in uncertainty avoidance, hence, relatively more susceptible and open to change.

Higher context cultures are more common in Eastern than in Western cultures. E. T. Hall and Mildred Reed Hall list Japan, Arabic countries, Greece, Spain, Italy, England, France, North American countries, Scandinavian countries, and German-speaking countries in order from high to low context, where some countries were also termed as medium-context countries. It is argued that collectivist cultures, in which group and/or community is valued over the individual, support higher context cultures than an individualistic culture that fosters individual achievement. For example, in Saudi Arabia and China, family, friends, and coworkers have close personal relationships and large information networks. They are generally more collectivist (group oriented) and tend to develop diffuse intersecting relationships where work and personal lives often overlap. Developing trust is a first step to any business transaction in these cultures. Relationships often take precedence over tasks and thus are less governed by reason than by intuition or feelings. Flowery language, humility, and elaborate apologies are typical. On the other hand, lower context cultures, such as Switzerland and Denmark, develop specific compartmentalized relationships at work by maintaining a separation between work and personal lives. Members of these cultures are also more individualistic; therefore, in interacting with others, they require much more detailed information. Tasks often take precedence over relationships, and discussions often end with action. Mediterranean and other European countries are described as medium-context countries.

**Importance**

Hall's context model is considered to be a major influence in cross-cultural management research. Although there are many prominent and popular conceptualizations of national cultures, including those of Geert Hofstede, the Global Leadership and Organizational Behavior Effectiveness (GLOBE) study by Robert House and associates, and Fons Trompenaars, to name a few, it is only Hall's work that explicitly offers a communication-oriented perspective on culture. Hall contends that culture
High- and Low-Context Cultures

Communication and that no communication by humans can be divorced from culture. In addition, as has been mentioned previously, it can also be used as the basis for explaining other cultural dimensions, such as collectivism, uncertainty avoidance, time orientation, and specific-diffuse relationships.

Over the past few decades, Hall’s context model has been used to describe how people in a culture relate to one another, especially in social bonds, responsibility, commitment, social harmony, and communication. Several studies have indicated that (higher or lower) context affects cross-cultural communication, conflict resolution, and negotiations. Hence, it has proven helpful in understanding differences among cultures and for studying the managerial implications of cultural differences. Contemporary managers are increasingly transacting with a culturally diverse assortment of stakeholders, including customers, suppliers, and employees. Communication is a core business activity, which allows organizations to promote a service or product, negotiate a price, sell the product or service, and relay other business-related information to a variety of audiences. In today’s intensely competitive and global marketplace, it is important to avoid miscommunication. Understanding the concept of high-low context culture allows managers to be more effective in communicating with others, as well in interpreting what others communicate to them. Making sure you know bow to say something (or how it is said), in addition to what to say (or what is said), is critical. Insights from the low-high context model heighten awareness of cultural nuances and can be used to adapt content and mode of communication to the style and needs of the interlocutor.

Research has expanded classification of high, medium, and low context to countries (beyond Germany, Japan, and the United States) not originally studied by Hall. However, support for such analysis is not universal. Some authors also focused upon validating Hall’s context model—empirically analyzing whether countries traditionally assumed to be high context or low context are actually high context or low context in today’s globalized environment. This has led to sometimes contradictory and mixed findings. Jane Kassis Henderson has criticized Hall’s concept as an analytical tool that is not useful for contemporary global managers as they increasingly experience dynamic and multilingual situations. Others criticized it for bipolarization, overgeneralization, and lack of empirical foundation. Recently, Markus Kittler and associates performed a systematic review of the studies that have used Hall’s concept in the literature between 1991 and 2007. They attribute contradictory findings to several methodological shortcomings of studies subsequent to Hall’s research, including an overreliance on quantitative approaches, selection of a convenience (business student) sample, and an exclusive focus upon a United States–Asian comparison. In particular, they show that these studies have used context as a dichotomous variable and neglected the medium-context, despite Hall’s original conceptualization of high and low merely as poles of a context continuum. They conclude that a more sophisticated and rigorous approach to Hall’s context model is needed in order to revive interest in Hall’s context model and to produce work that benefits cross-cultural communication.

Shaista E. Khilji

See also Cultural Intelligence; Cultural Values; Individual Values; Managing Diversity; Meaning and Functions of Organizational Culture; Multicultural Work Teams

Further Readings


High-Performance Work Systems

High-performance work systems (HPWS; also known as high-commitment practices and high-involvement work practices) refers to a configuration of distinct but related human resource (HR) practices that enhance or increase employees’ skills, motivation, commitment, and effort. HPWS is a specific type of HR system. Examples of HPWS practices include formal information sharing programs, formal job analysis, quality of work-life programs, profit sharing plans, extensive training and development, performance-based compensation, and formal grievance procedures. HR scholars and practitioners alike have consistently shown, other things being equal, that organizations with rigorous HPWS practices have statistically significant higher levels of individual and organizational performance. In general, research has shown that HPWS is strongly linked to the needs of the business and plays a critical role in how organizations develop and sustain competitive advantage using their human resources. This entry begins with a brief discussion of the characteristics of HPWS, continues by highlighting the current debates in HPWS research, and concludes with a discussion of the implications of HPWS.

Fundamentals

Characteristics of High-Performance Work Systems

The systems perspective. The notion of HPWS is embedded in the systems perspective of managing human resource management (HRM). According to Brian E. Becker and colleagues, this perspective views HR practices as working together to support organizational goals and objectives. Here, the unit of analysis is the entire system rather than the individual HR practices and policies. The various HR practices synergistically complement each other to form unique configurations or bundles that can result in increased performance, both at the individual level (e.g., employee) and the organizational level. For example, research by HR scholars, such as Mark Huselid, has shown that the unique configuration of the HPWS produces high-performance employee behaviors and competencies (individual level) which in turn improve revenue, profits, and ultimately market value (organizational level).

Alignment, or fit. At the heart of HPWS is the concept of alignment, or fit. There are two types of alignment: horizontal and vertical. Vertical fit occurs when the entire HRM system fits with all other components of the organization such as business strategy, organizational structure, and organizational culture. An important form of vertical fit is between an organization’s business strategy and HRM systems. Over the past two decades, researchers such as Randall Schuler, Susan Jackson, and John MacDuffie have examined (theoretically and empirically) how various configurations of HRM systems relate to different types of business strategies. This stream of research has examined how organizations differ in the configuration of their HR systems and how different bundles of HR policies and practices support their business goals and objectives.

Horizontal fit refers to how various HR policies and practices synergistically support each and enhance one another’s effectiveness. As described by John Delery, there are two forms of synergistic relationships among HR practices. First, there can be a positive synergistic relationship among HR practices whereby the whole is greater than the sum of the parts. When HR practices work together (e.g., extensive training practices supporting staffing practices that recruit and select individuals with raw talent), their impact on performance is much greater than the individual practices that made up the system. The second type of relationship occurs when two practices actually work against one another. Becker and colleagues refer to this as a “deadly combination” that produces negative synergy. When HR practices work in deadly combination (e.g., career development programs designed for most valuable
employees offered to all types of employees), their impact on performance is much less than the individual practices that make up the system.

Overall an important assumption in HPWS is that organizations that use HPWS have the best possible horizontal and vertical alignments.

**Current Debates in High-Performance Work Systems Research**

There are currently two important debates related to HPWS for HR researchers and professionals. The first examines the design of the HPWS—how the various HR practices are configured, how the practices within the HPWS work together, and whether there are any subsystems of HPWS. The second area focuses on the process of HPWS—examining the mediating variables between HPWS and firm performance, more specifically on how HWPS affects the knowledge-based human capital (e.g., tacit knowledge domains).

**Implications of High-Performance Work Systems**

**Organizational performance.** Over the last two decades, considerable research efforts have been devoted to examining how HPWS practices relate to various measures of individual and organizational performance. Mark Huselid’s 1995 study provided strong evidence of the fact that HPWS is related to measures of individual and organizational effectiveness. Huselid’s study was focused on both intermediate employee outcomes (e.g., turnover and productivity) and short-term and long-term measures of corporate financial performance. In his study, Huselid also illustrated what HPWS looks like and how the HR practices within the system work together. An important finding from Huselid’s work and other strategic HRM is that HPWS systems do not directly impact organizational performance. The HPWS influences intermediate employee outcomes, such as human capital (e.g., knowledge, skills, and abilities), and employee behaviors. These in turn lead to improved performance. This is referred to as the black box of strategic HRM.

**Talent management.** Talent management is an area of HRM that focuses on employees with high level human capital (e.g., knowledge, skills, and abilities). These employees are also known as critical employees, strategic employees, high-potential employees, and A players. The current trends suggest that HPWS helps organizations attract, develop, and retain talent. Characteristics of organizations that use HPWS to manage talent include focusing more on knowledge workers, providing greater autonomy to strategic employees, extensively using team-based projects, and deploying highly sophisticated technology-based learning systems to develop employees. Due to a critical shortage of talented employees (e.g., easier to develop existing raw talent than to attract talent from external labor markets) HPWS practices are likely to continue playing an important role in how organizations manage talent.

Ibraiz Tarique

See also Behavioral Theory of the Firm; Competitive Advantage; Human Resource Management Strategies; Human Resources Roles Model; Strategic International Human Resource Management

**Further Readings**


The ability to work well in teams is undeniably essential in present-day organizations. Across a wide range of organizations, teamwork provides the competitive edge that translates opportunities into successes. High-performing teams are crucial for the effectiveness of organizations, not the least because well-aligned team thinking and goal orientation facilitates dealing with current crises and designing long-term strategies. Yet leaders and scholars too easily overlook the reality that, for most teams, it can be very difficult to generate remarkable synergy and excellent outcomes; instead, many teams become mired in endlessly unproductive sessions and are rife with conflict. Given the importance of teamwork, why do so many teams fail to live up to their promise? The answer lies in the obstinate belief that human beings are purely rational entities. Many team designers or others in positions of leadership fail to appreciate the real complexity of teamwork. They forget—out of denial or simple naiveté—to take into account the subtle, out-of-awareness behavior patterns underlying human interactions, at the interpersonal as well as intrapersonal levels. In other words, individual idiosyncrasies and group dynamics can derail effective team performance if these forces are not examined and, if necessary, addressed. This entry describes the core premises of the clinical approach to individual, team, and organizational studies. The authors then suggest how this paradigm can be applied practically and to great effect within the context of leadership group coaching toward the development of high-performing teams.

**Fundamentals**

At their best, high-performing teams have a source of collective energy and synergy which allows them to accomplish their goals with great efficiency and effectiveness. Team members possess a shared sense of purpose; they all pull in the same direction at the same time while taking advantage of complementarities in skills and competencies. In such teams, goals and objectives have been discussed and agreed on openly, so each member of the team pursues the same thing. Such teams stick together through highs and lows, taking both the blame and the rewards as something to be shared by all. The team is a source of pride to its members, who derive great pleasure and satisfaction from working together.

Dysfunctional teams, by contrast, are rife with role conflict and ambiguity, unresolved overt and covert conflicts, poor timekeeping and absenteeism. Teams that cannot reach closure have rigid, ritualistic meetings; uneven member participation; tunnel vision; indifference to the interests of the organization as a whole; and a lack of resources, skills, knowledge, and accountability. Within such teams, there is no genuine collegiality, collaboration, or coordination.

In many dysfunctional teams, blaming and scapegoating are some of the major dynamics stalling the organization’s productivity and creative process. In these teams, members avoid dealing with conflict, preferring to resort to veiled discussions and guarded comments. Taken to the extreme, such teams become toxic and morph into highly constipated, slow decision-making bodies, underperforming and floundering despite all the resources made available to them. Competitive feelings among team members can result in sabotage of each other’s work, unjustified criticism, and withholding of information and resources, contributing to the breakdown of the team’s proper functioning. All these dynamics can be very subtle, but they can be very damaging to the organization and its members.

Organizational designers need to realize that, when they create teams, there is more going on than meets the eye. In every human interaction, there are visible, intentional behaviors that are fairly easy to understand, and there are also subtexts, or unconscious motivators, personality quirks, and the emotional life of its team members that influence those actions. A purely cognitive, rational-structural perspective on teamwork will be incomplete if it fails to acknowledge the unconscious dynamics that underlie individual and group motivation and behavior.

Increasingly, organizational studies are starting to pay attention to the emotional life of their members;
they recognize that much of what motivates a person’s behavior is beyond his or her conscious awareness. A clinical paradigm brings a more holistic and systemic orientation to organizational studies and interventions by providing a psychodynamic lens for examining the micro, meso, and macro processes of teams—which clinicians can visualize as interwoven individual, group, and organizational interactions.

**The Clinical Paradigm**

The clinical orientation is solidly grounded in concepts of psychoanalytic psychology, short-term dynamic psychotherapy, cognitive theory, human development, and family systems theory. It is used in conjunction with more traditional organizational development methods as an extremely powerful means to decipher knotty individual leadership, team, and organizational issues. In the case of many incomprehensible organizational situations, a clinical orientation can go a long way toward bringing clarity and providing solutions.

The key premises of the paradigm are the following:

**Rationality is an illusion.** Behind any irrational act is a rational meaning. Nothing that people do is random. Understanding this rationale is critical to making sense of our own and other people’s inner theater—the core themes that affect personality, behavior, and leadership style.

**What people see isn’t necessarily what they get.** Much of what happens to people is beyond their conscious awareness. Most human behavior is driven by unconscious forces. To have a better understanding of these unconscious patterns people need to explore their own and other people’s inner desires, wishes, and fantasies; they need to pay attention to the repetitive themes and patterns in their lives and in the lives of others.

**The past is the lens through which people can understand the present and shape the future.** Like it or not, all people are the product of their past. People are inclined to view the present through the microscope of past experiences. Personality structure is due to a person’s genetic endowment and the developmental outcome of the individual’s early environment. To make sense of their behavior, people must explore their interpersonal history, including their original attachment relationships.

Applying a clinical paradigm to the study of organizational life can be described metaphorically as entering into an individual’s inner theater. Within this inner theater, a rich tragicomedy plays itself out on the stage, with key actors representing the people they have loved, hated, feared, and admired throughout their lives. Some of these early interactions evoke painful memories; others fill people with a sense of well-being. These internal figures are a strong influence on the development of people’s values, beliefs, and attitudes, which laid the foundation of their personality, patterns of behavior, preferred leadership styles, and courses of action.

If they want a better understanding of themselves and their behavior in teams, they need to pay attention to the unconscious dynamics of their early relationships (early caregiver, parent, or sibling, for example). These relationships in turn affect not only the way they love, choose their friends, or express themselves, but also they influence patterns of relationships with bosses, colleagues, and subordinates. These relationships permeate all their life experiences and determine the way they make decisions, their preferred leadership style, the way they communicate, and the degree to which they are able to work together closely in teams.

A clinical orientation treats the team or group as a living organism with all its interdependencies and complexities; it moves from the surface of human behavior to a more in-depth analysis of group dynamics so that clinicians may better understand why teams (and the individuals within them) behave the way they do, to identify areas of team dysfunction, to encourage them to loosen their bonds with unproductive past behavior, and to help them see new possibilities in the future.

**Importance**

Thinking about how to harness the potential force of group dynamics, Manfred F. R. Kets de Vries began, in the early 1990s, to experiment with leadership group coaching in a multi-module program for top executives. Applying the clinical paradigm in these coaching situations, he and his team wanted to help participants confront the underlying forces that prevent them from performing individually and collectively at their best. They believed that by helping senior executives to see below the surface, they would better understand the dynamics (including
the resistances) that prevent them from performing at their best and, through the coaching process, identify the changes needed to instill a corporate culture of team-based distributive leadership in their own organizations.

Leadership group coaching is a specific form of intervention that can be carried out strategically with individuals, teams, or an entire organization. Its aim is to direct a group of people (who come from previously existing working groups, or in mixed-function/project groups) toward a specific, mutually determined goal, accelerating organizational progress by providing focus and awareness. By providing a safe space for honest and open explorations and confrontations, teams get a better understanding of the strengths and weaknesses of each of its members. This awareness brings understanding, which in turn builds trust, and opens the path to dealing with the undiscussables, or shadow side, of their team. Through group coaching, team members challenge and reassess their assumptions about themselves and others; in doing so, they understand why they behave the way they do and why the team as a whole behaves the way it does. They undergo a cohesive experience, bringing the team members closer together, not only in terms of resolving conflict and achieving mutual understanding but also by increasing shared accountability and renewed commitment.

When conducted with a strong psychodynamic component, group coaching allows individuals to confront their own dark side and the dysfunctional aspects of their teams. Elucidation and clarification in turn helps induce alignment between the goals of individual group members and accelerates an organization’s progress by providing a greater understanding of the team’s strengths and weaknesses, which can lead to better decision making. It fosters teamwork based on trust; in turn, the culture itself is nurtured as people become used to creating teams in which people feel comfortable and productive. When they work well, team-oriented coaching cultures are like networked webs in the organization, connecting people laterally in the same departments, across departments, between teams, and up and down the hierarchy.

Operating in today’s organizations requires leaders with collaborative, problem-solving, and influencing skills—executives with emotional intelligence, who have an astute understanding of how to analyze complex processes and grasp the intricacies of the company’s value chain, who know how to deal with inefficiencies and recognize interdependencies among other stakeholders in the organization, and who are prepared to acquire the emotional know-how to motivate and empower employees and teams to perform at peak capacity. The organizations of tomorrow, more than ever, will need executives who can deal with both the advantages and disadvantages of teamwork and know how to be effective as a member of a team. Today’s world of work requires the kind of executive who moves beyond the more cognitive, rational-structural point of view of organizations and pays attention to both the overt and covert forces underlying organizational life.

When dysfunctional group dynamics prevail, teams perform below their capacity, and the price can be considerable. This is one of the reasons why leadership coaching has become such a growth industry. When an organization supports its executives in the development of high-performing teams through leadership coaching programs, the individual, the team, and the whole organization will benefit. Leadership coaching complements existing leadership development programs and makes an essential contribution to the success of any change initiative. What’s more, group coaching leads to increased self-awareness and provides a better understanding of the kinds of obstacles that people have to deal with in their journey through life. It gives people a new lens through which to examine deeply confusing personal, team, and organizational problems. Whether these dilemmas are conscious or unconscious, leadership group coaching can help executives create tipping points, to make them more successful at managing their day-to-day responsibilities, meeting their goals, recognizing when they find themselves at crossroads, and, most importantly, creating a fulfilling life.

*Manfred F. R. Kets de Vries and Alicia Cheak*

*See also* Emotional and Social Intelligence; Group Development; High-Performance Work Systems; Needs Hierarchy; Theory of Emotions; Work Team Effectiveness
HIGH-RELIABILITY ORGANIZATIONS

A high-reliability organization (HRO) is an organization that operates in a nearly error-free manner despite facing high levels of social and technical complexity. These organizations need to perform with exceptional reliability because failures have been deemed unacceptable by governmental and/or regulatory bodies. HROs play a key role in management theory because they illustrate the practices and processes through which an organization is able to perform in a highly effective manner under extremely trying conditions. As organizational environments change at an ever-quickening pace, HROs and the management of them serve as a useful model for an increasing number of organizations. In the remainder of this entry, the characteristics of HROs, the processes through which they achieve highly reliable performance, and the ongoing debate between HRO and normal accident theory (NAT) are outlined.

Fundamentals

The scholarly understanding of HROs results from a series of careful, in-depth case studies by a group of researchers at the University of California Berkeley (Todd LaPorte, Gene Rochlin, and Karlene Roberts) who examined aircraft carriers (specifically the USS Carl Vinson), the Federal Aviation Administration’s Air Traffic Control system (and commercial aviation more generally), and nuclear power operations (Pacific Gas and Electric’s Diablo Canyon reactor). Further research on each of these three sites included participation by Karl Weick and Paul Schulman. Later research in this tradition has examined additional HROs, including the fire incident command system, Loma Linda Hospital’s Pediatric Intensive Care Unit, and the California Independent System Operator. These diverse organizations share some key characteristics—(a) they operate in unforgiving social and political environments, (b) their technologies are risky and present the potential for (often catastrophic) error, and (c) the scale of possible consequences from errors or mistakes precludes learning through experimentation. Researchers have identified properties of HROs that are similar to other highly effective organizations, including carefully selecting employees to ensure they have the requisite interpersonal and technical skills, continual training to keep skills sharp, and frequent process audits and continuous improvement efforts. Yet other properties of HROs are more tailored to their specific challenges such as a variety of cross-checking mechanisms designed to detect errors before they occur and the development of latent networks of expertise that are activated when an HRO experiences an unexpected event. In addition, the mind-set that characterizes HROs is also unique in that it emphasizes the importance of avoiding misperceiving or misunderstanding emerging threats to reliability.

Defining high reliability has presented some challenges. In an early formulation of high reliability, Roberts proposed that high-reliability organizations are a subset of hazardous organizations that have enjoyed a record of high safety over long periods of time. Specifically, she stated that when an organization could have failed catastrophically but does not on the order of tens of thousands of times, it is an HRO. More recent treatments of high reliability have relaxed this definition in favor of arguing that high

Further Readings


reliability merely indicates that some organizations must perform in a nearly error-free manner under very trying conditions, that high risk and high effectiveness can coexist, and that it takes intensive effort to achieve this. This more flexible definition has led a broader set of researchers to contribute to the literature on HROs by expanding it to include reliability-seeking organizations. Reliability-seeking organizations are not distinguished by the human and societal cost of failures but, rather, their need to manage the complexity of their task environment such that they avoid small failures amplifying into organizational mortality.

In an influential review of the case studies of HROs, Weick, Kathleen Sutcliffe, and David Obstfeld provocatively posited that HROs achieve their extraordinary performance through a set of processes known as mindful organizing. Mindful organizing consists of preoccupation with failure, reluctance to simplify interpretations, sensitivity to operations, commitment to resilience, and deference to expertise. In other words, HROs are highly reliable because their people spend time discussing what could go wrong (preoccupation with failure), considering the assumptions they make and alternatives to current practice (reluctance to simplify interpretations), attempting to create and share an up-to-date big picture of operations (sensitivity to operations), building capabilities for learning (commitment to resilience), and migrating decision making to the person with the most expertise with the problem at hand (deference to expertise). As such, mindful organizing constitutes actions that forestall and contain errors and crises. This reconceptualization of the literature on HROs led to the development of a mindful organizing scale that has been linked to improving reliability (e.g., reducing medication errors in health care contexts). Mindful organizing’s impact on reliability seems to be enhanced when leaders cultivate trust with their employees. Ongoing research on mindful organizing and HROs is focusing on how an organization becomes highly reliable, understanding the conditions under which mindful organizing emerges, and empirically differentiating mindful organizing from other established organizational processes and emergent states (e.g., transactive memory systems).

Research on HROs is often contrasted with, and even seen as a response to, normal accident theory (NAT). NAT asserts that systems that are tightly coupled (i.e., have time-dependent processes that occur in a fixed sequence and limited slack resources) and interactively complex (i.e., parts of the system interact in unexpected ways that are impossible to anticipate and difficult to correct) will inevitably experience accidents, and they will often be catastrophic. The disasters at the Three Mile Island and Chernobyl nuclear facilities are considered representative examples of normal accidents. NAT directly conflicts with HRO in that the former embraces the view that managerial and organizational interventions cannot overcome the tight coupling and interactive complexity whereas the latter suggest that, although very difficult, such organizations can function safely despite the hazards of complex systems. Although the differences between HRO and NAT remain, researchers on both sides of it have agreed that if the recommendations of NAT must be ignored (because a technology is too important), then following the HRO approach to managing the resulting organization is advisable. As a result, research on HROs continues to be of great interest to scholars of leadership, safety, team processes, organizational design, and organizational learning.

Timothy Vogus

See also Complexity Theory and Organizations; High-Performing Teams; Organizational Culture and Effectiveness; Organizational Learning; Positive Organizational Scholarship; Sensemaking; Systems Theory of Organizations

Further Readings


Human Capital Theory

Human capital theory suggests that people are as important as other resources involved in the production of goods and services, and proper investments in human capital can result in improved performance at the individual, group, organization, and country levels. As noted by Gary Becker in the 1960s, investments in human capital provide benefits to individuals, organizations, and societies. This theory is important to management because it guides managers’ decisions about investments in training and developing employees. This entry first describes the fundamentals of the theory from a management perspective and goes on to discuss the importance of the theory to the field of human resources management (HRM), in particular strategic HRM and talent management.

Fundamentals

With roots in labor economics, the primary proposition of human capital theory is the notion that an individual possesses human capital, which refers to the knowledge, skills, and abilities acquired from training, development, education, and other types of work and nonwork learning–based experiences. Examples of human capital include cognitive ability, education, work experience, international travel experience, industry experience, and organizational tenure. This human capital is similar to other resources involved in the production of goods and services. Everything else being equal, appropriate investments in human capital can result in increased knowledge, skills, and abilities that in turn can improve performance and productivity at various levels (e.g., individual, group, organizational, and national). As Becker points out, human capital theory can be used to explain the variation in income and productivity across individuals, organizations, and nations.

An important assumption of human capital theory is the proposition that training is an investment from which organizations and individuals expect a return. As described by Becker, investing in human capital is viewed like any other type of investments that are subject to risks and returns. From an organizational perspective, investing in human capital can require extensive resources such as time and labor. Similarly, from an individual perspective, investing in human capital involves significant direct and opportunity costs, such as forgone earning, loss of productivity while in training, and stress and anxiety involved with learning. There are also expected returns for both the organization (e.g., a highly capable workforce) and the individual (e.g., increases in future earnings, job satisfaction, promotions). Another assumption of human capital theory is that (other things being equal), any investment in human capital is likely to add value (e.g., create wealth or increase income) as long as the present value of the benefits exceeds the present value of the costs. In addition, benefits from investment in human capital are future oriented; that is, they occur in the future (e.g., after the learning event has taken place) and need to be discounted or converted to a present value for comparison purposes.

Another important assumption of human capital theory is that there are significant differences
between general training and specific training. General training refers to training (or knowledge, skills, and abilities acquired from training) that is transferable across organizations, including within the organization that provides the training or learning experience. Specific training, in contrast, includes training (or knowledge, skills, and abilities) that is limited in transferability to other organizations and is useful to the organization that is providing the training or the learning experience. There are important implications of the differences between general training and specific training for distribution of training costs. With respect to general training, the trained employee benefits more than the organization and hence absorbs the costs of general training. The opposite is true with specific training. The organization benefits more than the employee, hence, the organization providing the specific training or the specific learning experience absorbs the cost of training, not the employee.

An example of a distinction between general training and specific training is on-the-job training (OJT), which is defined as training that takes place at the worksite while the employee is performing work-related activities. According to human capital theory, OJT is effective in providing an employee with job-related knowledge, skills, and abilities. In addition, OJT allows an employee to maintain current levels of knowledge, skills, and abilities. An important point that magnifies the distinction between general training and specific training is that OJT is a type of an investment that is work related and not an institutional investment that focuses on teaching and education.

Another example of a distinction between general training and specific training is the relationship between the type of training and employee turnover. According to human capital theory, the relationship between the employer and the employee becomes stronger with specific training as there are significant separation costs both for the employer and the employee. At the individual level, an employee who receives specific training is less likely to voluntarily leave the organization or quit because he or she will be less attractive to other firms. At the organizational level, the organization that provides specific training is less likely to separate the trained employee from the organization because the organization is likely to incur costs of recruiting and selecting a new employee and then training the new employee. There are significant costs associated with socializing and training new employees. Overall, specific training is negatively related to voluntary employee turnover.

An interesting proposition of human capital theory is that turnover rate of employees with specific training is most likely lower than for a general trained employee during an economic downturn. According to human capital theory, organizations can do several things to manage the concern with turnover of employees with specific training: (a) get more out of employees who are specifically trained and remain with the organization after training—in other words, increase the rate of return from these employees; (b) offer monetary and non-monetary incentives or premiums to encourage employees to stay with the organization after training. This is a viable option from most organizations that provide specific training because they absorb part or most of the costs associated with providing specific training; (c) offer above market compensation or wages that are higher than alternative employment (e.g., what the employee could earn at any other organization); (d) encourage or ask the employee to share the cost of specific training. Similarly, share the rewards from the specific training with the employee.

There are several other propositions of human capital theory that are relevant to management. First, the ability to acquire or learn a certain level of skill varies with the individual. Some individuals take more time than others. For example, the ability to learn a new language varies from person to person; some people take more time than others to do this. Second, there are significant barriers to entry that prevent people from developing or changing careers. For example, some careers have institutional restrictions, such as licensing and quotas. Third, human capital theory can provide a framework for explaining differences in employee income and compensation levels. For example, certain talented individuals with high levels of human capital earn more than individuals with lower levels of human capital.

**Importance**

Theodore Schultz, Jacob Mincer, and Becker formalized the theory of human capital in the 1950s and 1960s. Becker’s various human capital studies and books in the 1960s developed the theory significantly
to address the difficulty at that time of explaining how the traditional factors of production, such as physical capital, affected the growth in income. There was a consensus that the traditional factors of production explained only part of the economic growth and that human capital played an important role in explaining wage differentials. Since its initial development, human capital theory has evolved into one of the most widely used and accepted theoretical frameworks in economics to understand the role of human capital in a variety of contexts. Although the foundation of the theory has not changed much, it has been applied extensively by academics and practitioners to address a variety of issues in a variety of fields, including general management, strategic management, human resource management, and talent management. A recent Google search of the term human capital resulted in over 23 million hits. A search of the ABI/INFORM database using human capital as a subject resulted in over eight thousand articles published in the last 60 years. These results show a strong record of scholarship.

The importance of human capital theory can be seen in a variety of fields. The fields of global talent management and strategic human resource management in particular have benefited from this theory and, as such, comprise the focus of the remainder of the entry.

**Human Capital Theory and Global Talent Management**

If there is one field that has been extensively influenced by human capital theory, it is global talent management. This is a relatively new and emerging area that has benefited from human capital theory. Global talent management focuses on individuals with high levels of human capital. More specifically, global talent management examines how organizations attract, retain, develop, and mobilize talent. Attraction refers to finding and locating talent, retention refers to deterring talent from voluntarily leaving the organization, development refers to preparing talent for critical positions, and mobilizing refers to placing talent in appropriate positions.

Human capital theory provides a conceptual framework to view talent as a form of capital and for understanding the choices organizations can make in terms of attracting, retaining, developing, and mobilizing individuals with high levels of human capital. Similar to human capital theory, an important assumption of global talent management is that employees with high levels of human capital are useful to the organization to the extent they add firm specific value that is difficult for other organizations to copy and imitate. Investments in practices that attract, develop, retain, and mobilize talent can be viewed as investments in the human capital of the firm. The outcome or return on investments in global talent management practices can firmly be grounded in human capital theory.

Another application of human capital theory can be found in examining the decisions organizations make about how to align high-level human capital with critical or core positions and jobs. An important decision guided by human capital theory is the choice organizations have to make in acquiring high-level human capital either from the external global labor markets or by developing the high-level human capital already within the organization. The assumption behind developing high-level talent internally is that in the context of talent shortages, high-level human capital is an important asset that needs to be developed internally more than recruited externally. This is similar to the argument that firm-specific human capital provides competitive advantage to firms.

**Human Capital Theory and Strategic HRM**

An important area of research in human resource management (HRM) is the field of strategic HRM, which, among other topics, examines the relationship between HRM systems and effectiveness at various levels (e.g., individual, group, and organization). There is considerable interest in understanding how HRM systems relate to organizational effectiveness—this is referred to as the “black box” of strategic HRM. Recent findings suggest that an important outcome of HRM systems is human capital and that human capital is a mediator in the relationship between HRM and performance.

Another important topic of discussion in strategic HRM is the issue of measuring human capital. This is important to better understand the process through which human capital affects performance measures. Therefore, academics and practitioners alike should use and develop metrics that clearly measure the various forms of human capital.

*Ibraiz Tarique*
Human Resource Management Strategies

Contingency theory, in the context of strategic human resource (HR) management, suggests that systems of HR practices (i.e., an HR strategy) can create competitive advantage and lead to sustained higher firm performance when the system works to create and support the employee capabilities required to support and drive the business strategy of a company or business unit. As researchers seek to understand the how and why of the potential relationship between HR practices and firm outcomes, it is critical to understand that the effectiveness of a particular system of HR practices will be dependent upon the match of this HR strategy to the strategic needs of the organization. This entry presents an overview of the contingency perspective of HR and provides two examples of HR strategies and how they fit with and support specific business growth strategies.

Fundamentals

Strategic human resource management (SHRM) researchers have argued that firms can create competitive advantage when the human resource management strategy is aligned with and supports the strategic needs of the organization. Specifically, when the HR system elicits the workforce characteristics required by the business strategy, organizational performance will be positively affected. Consequently, SHRM scholars have called for research to identify the specific competencies required for success in different strategic contexts and to determine the human resource management approaches which will elicit and support these competencies.

Following research on contingency theory, organizations can drive competitive advantage and higher performance by implementing systems of HR practices that create and reinforce the workforce characteristics consistent with a particular organizational strategy. There are two underlying premises to the contingency-based approach to SHRM. First, different business strategies require unique sets of organizational and workforce competencies and behaviors and in order to drive performance through HR practices, an organization must identify the competencies that are required by its strategy and develop an HR system that effectively elicits and supports these competencies. Second, there is a strong focus on the entire HR system rather than on individual practices. Consistent with these arguments and to provide examples of how particular HR strategies may support specific business strategies, Christopher J. Collins identifies the systems of HR practices most likely to support the underlying workforce characteristics needed to drive and sustain exploration and exploitation strategies—two broad growth strategies that have been articulated for firms and business units.

Exploration and the Engineering HR Strategy

Organizations following an exploration strategy compete through novel innovation aimed at new
Human Resource Management Strategies

Product or service domains. Firms following this strategy tend to be characterized with a learning orientation focused on experimentation and seeking variation from existing patterns or technologies. To successfully pursue the exploration strategy, firms need access to new knowledge and must create a climate of creativity that is dependent upon the ability to exchange previously unconnected knowledge to produce novel recombinations. Further, firms pursuing this strategy must also create a willingness to take risks, experiment, and experience failures in the pursuit of doing things in novel ways or shifting the technology trajectory.

Underlying these organizational factors are particular workforce characteristics that support exploration. Specifically, employees must be diverse in knowledge, willing to collaborate and exchange knowledge and risk taking. In order to broadly search for and access knowledge, employees must also have expansive external ties and have the opportunities to meet and interact with organizational colleagues to facilitate the exchange and combination of knowledge within the firm. Employees who feel comfortable taking risks are more likely to propose and exchange unusual ideas and experiment with new knowledge.

Following from these arguments, the workforce characteristics most advantageous to a firm pursuing an exploration strategy are flexibility, open and active cross-departmental communication networks, the possession of unique and diverse skill-sets by many employees, and a risk-taking culture that facilitates creative experimentation. Collins argues that the engineering HR strategy is the best fitting HR system to support exploration. James N. Baron and colleagues described the engineering HR strategy as a system of HR practices characterized by selection for specific task abilities, peer-based coordination and control, and employment attachment based on challenging work.

By selecting employees with specific skills and capabilities, this HR strategy will help organizations promote high levels of specialization and the broad base of knowledge required for productive knowledge exchange and combination. Specifically, companies following the engineering model think of employment as an open market for skills which facilitates the addition of new specialized knowledge to broaden the overall knowledge portfolio of the firm. This selection strategy also helps broaden the connection to external organizations that increases the diversity of knowledge to which the firm has access.

Under this strategy, control and coordination of employees is based on self-management and peer input. Loose guidelines, high levels of coordination, and reliance on attracting highly skilled professionals combine to create a climate in which employees adhere to professional standards and monitor their own as well as their peers' performance. Further, the high degree of autonomy inherent in the engineering model creates the form of employee motivation (i.e., intrinsic motivation) most closely tied to creativity. Finally, employees are more likely to experiment with new ideas and take risks on trying things in new ways when they are empowered to make decisions and determine how to best accomplish their job.

The final aspect of this HR strategy—attachment to the organization based on challenging work—is also complementary to the creation of novel innovation inherent to the exploration strategy. In particular, the focus on increasing attachment by providing employees with exciting and challenging work will create intrinsic motivation in the form of job involvement which fosters creativity. It is likely that employees who take responsibility for and are rewarded based on development within their roles will feel and express higher levels of involvement in their jobs. This strategy also supports internal movement and collaboration and increased trust between coworkers, increasing the likelihood of unique knowledge exchange and recombinations.

Overall, organizations following an engineering HR strategy attract employees with specialized knowledge, increase the flow of knowledge through cross-functional teams and horizontal communication, as well as increase intrinsic motivation for creativity resulting in the exchange of diverse knowledge and unique recombinations of knowledge supportive exploration.

Exploitation and the Bureaucratic HR Strategy

Organizations following an exploitation strategy compete through advantages in quality and/or efficiency and follow a learning orientation anchored in incremental improvements on current technologies and processes. Because competition through the exploitation strategy depends on quality and
efficiency in production, exploitative organizations can benefit from depth in knowledge in a particular area which enables the firm to refine and improve existing activities. Organizations can achieve a consistently high level of process improvements and quality improvements through institutionalism and the standardization of work routines.

Consistent with institutionalism and standardization, firms following the exploitation strategy must be able to attract and manage employees who are willing and able to carefully and consistently follow rules and routines and closely comply with managerial direction and rules. Specifically, employees must be committed to following routines, rules, processes, and procedures in order for the firm to maximize the production benefits of standardization. Employees who are rules oriented and motivated to closely comply with processes and procedures are most likely extrinsically motivated. Further, exploitation-oriented firms can facilitate incremental improvement by attracting an employee base with deep rather than broad knowledge. As employees focus their deep knowledge on the tasks and technology at hand, they will be able to identify the incremental improvements and marginal shifts in the existing technology.

Given the importance of institutionalism and work routine standardization and associated employee attributes for firms following an exploitation strategy, it is important to identify how exploitative organizations can effectively align HR practices to support these outcomes. Collins argues that a bureaucratic HR strategy is the best fitting HR system to meet the requirements of the exploitation strategy. The bureaucratic model is guided by a managerial philosophy characterized by formal rules, narrow jobs, tightly held standards, and top-down communication and decision making. Organizations following the bureaucratic HR model follow specific patterns in terms of how they select employees, control employee behaviors and performance, and create employee attachment to the organization.

First, organizations following this HR strategy select employees to fit into the existing production processes based on a narrow set of specific skills, enabling employees to immediately carry out the narrow set of responsibilities tied to a particular job role. Further, employees are assigned specific tasks with tightly delineated responsibilities resulting in little room for variability in the completion of tasks and assignments. Consistent with this effort, formal rules are likely to dictate training specifications for each job role in the bureaucratic model. With this narrow approach, organizations can ensure that employees are experts with regard to the requirements of their particular job and are more likely able to efficiently and consistently carry out their standardized tasks and focus learning efforts on incremental improvement.

Second, organizations using a bureaucratic HR strategy control employee actions and behaviors through formal management systems, with tight supervision based on rules and documentation. This model uses a standardized performance evaluation system which can help to ensure that employees are completing tasks correctly, efficiently, and according to regulations. In this model of HR, decision making is controlled centrally, leaving little room for discretion and variability at the individual worker level, increasing the consistent execution of activities. By concentrating knowledge flows at the top of the organization, this strategy focuses on the exchange of knowledge within functions or work units in a manner that will support incremental improvements in technologies, products, or processes.

Finally, the bureaucratic strategy stresses rewards and employee attachment based on pay and other forms of extrinsic motivation. For example, promotions and pay raises are tied to employee performance over time, rewarding and retaining those employees who have been most compliant in following the strict processes and procedures set for their job. Further, pay- and promotion-based rewards will help to attract and retain the extrinsically oriented employees who are most likely to be willing and motivated to comply with strict rules and procedures. Additionally, bureaucratic organizations often attract experienced employees by paying higher salaries than competitors, and as stated, promotions provide incentive and rewards for employee performance and development in a particular task domain.

Thus, it has been argued that the bureaucratic HR strategy will support the requirements of the bureaucratic strategy by creating an environment in which employees are more likely to comply with tight rules and procedures and look to direct learning—with incremental improvements based on HR practices oriented toward narrowly defined and tightly controlled job roles, narrow and task specific job skills, vertically controlled decision making and information flows, and extrinsically oriented rewards.
**Importance**

The field of strategic human resources has long been arguing for following a contingency approach to understand how HR strategies lead to sustained competitive advantage. In recent years, scholars have argued that the best way to identify the HR strategy that is best aligned to support a particular business strategy is to first identify the workforce requirements of the strategic context and then work backward to identify the HR strategy (i.e., the systems of HR practices) that is most likely to drive and support these employee outcomes. Collins, following this line of thinking, has provided two examples of how to use this logic to identify best fitting HR strategies. Specifically, he identifies the engineering HR strategy as the best fitting set of HR practices to support the workforce requirements of the exploration growth strategy and the bureaucratic HR strategy as the best system to support the exploitation growth strategy. Initial research on the contingency approach to strategic HR found mixed support; these early studies were based on generic HR strategies (e.g., high performance HR system) and very generic corporate strategies. Collins believes that following an approach that focuses on more carefully constructed matches between HR and business strategies, as outlined above, will lead to greater consistency in the pattern of findings. Future researchers interested in extending the literature on HR strategies may wish to similarly follow these examples to identify HR strategies and systems that are a fit for other business strategies’ strategic contexts.

While there has been a great deal of research examining the effects of high-commitment HR systems, there has been little empirical work that has examined the potential effectiveness of other HR systems. To better understand the complexity of the relationship between HR systems and firm performance and to help the field provide better advice to practitioners regarding the variety of choices on how to manage employees, more research is needed that examines a much wider array of HR systems. The theoretical logic of this entry supports the argument that it is crucial to identify the strategic choices that are specific to a particular industry in order to better understand the workforce requirements inherent to the strategies in that industry.

*Christopher J. Collins*

**See also** Behavioral Perspective of Strategic Human Resource Management; Business Policy and Corporate Strategy; Contingency Theory; Dynamic Capabilities; High-Performance Work Systems; Resource-Based View of the Firm; Strategic Contingencies Theory

**Further Readings**


managers are the owners of HR work and HR professionals are architects. A role is an identity as seen in the completion of this sentence: To deliver value as an HR professional, I must be a ____________. In this entry, five roles that HR professionals play are proposed and described and their importance discussed.

**Fundamentals**

The myriad of terms, concepts, and metaphors for the HR role tend to dissolve into confusion. Dave Ulrich and Wayne Brockbank propose a simple framework which filters out the noise, synthesizes previous work, and reveals five major HR roles: employee advocate, human capital developer, functional expert, strategic partner, and leader.

**Employee Advocate**

HR professionals spend about 19% of their time on employee relations issues. The proportion is apt to be higher if working in a service center rather than in a center of expertise. Whatever the context, caring for, listening to, and responding to employees remains a centerpiece of HR work. It requires HR professionals to see the world through employees’ eyes—to listen to them, understand their concerns, and empathize with them—while at the same time looking through managers’ eyes and communicating to employees what is required for them to be successful. Employee advocacy involves being available and caring while also being able to assimilate and share different points of view.

Some in the field argue that HR should move exclusively to business partnering, to help business leaders define and deliver financial and customer goals. Ulrich and Brockbank disagree. Employee relations are not just window-dressing: Employees really are the primary asset of any organization. The treatment employees receive shows in the treatment of customers and, ultimately, of investors. Indirectly, caring for employees builds shareholder value. HR professionals are the natural advocates for employees—and for the very real company interests they embody.

Advocacy also involves systematic discussion of employee concerns. When strategy is debated among the management team about closing a plant, expanding a product line, or exploring a new geographic market, the HR professional’s job is to represent employees. What will this strategy do to employees? What employee abilities will help or hinder execution of this strategy? How will employees respond to this strategy? HR participation in strategy meetings should present the employees’ voice—and employees should know that it does so.

Advocacy also involves managing diversity and ensuring mutual respect so that people feel comfortable sharing and discussing various points of view. Dissent with a shared focus on outcomes generates new ideas, encourages innovation, and delivers results. Diversity can be managed through training and communication programs and statistical monitoring or tracking, but it is created in the culture—in how leaders make decisions, interact with people, address conflict, and share information. The HR professional’s role is to root out discrimination whenever it appears. Had HR professionals countered off-color remarks with, “This is just not acceptable,” more than one company would have saved millions in legal fees, settlements, and lost reputations.

Advocacy isn’t all sweetness and light. Sharing tough news is also part of this role. When performance is unacceptable, it’s essential to act swiftly and decisively to correct the mistake or, if appropriate, to remove the employee. Good performers lose confidence in leaders who fail to act when people perform poorly. And sometimes, even competent and hardworking employees must be let go for reasons beyond the firm’s control. The employee advocacy role requires HR to establish a transparent and fair process for reproving and removing employees for whatever reason and then to help implement the process equitably throughout the organization.

**Functional Expert**

As a profession, HR possesses a body of knowledge. Access to this body of knowledge allows HR professionals to act with insight; lacking it leaves HR professionals wandering aimlessly—seeking best practices but never finding them. With the body of knowledge, HR functional experts improve decisions and deliver results. For example, as executives worry about the competencies of future leaders, they can turn to HR for advice. HR-leadership-development experts who know the theory and research on competencies draw on this research to create a leadership architecture for their organizations. Without a
Human Resources Roles Model

Ed Lawler’s research shows estimates that HR professionals spend about 17% of their time doing functional work. Of course, this varies from job to job. Those in centers of expertise spend much more of their time in these areas than do those embedded in the business. Embedded HR professionals have to diagnose business needs and find experts to help them deliver HR practices.

Functional expertise operates at multiple levels. Tier 1 involves creating solutions to routine HR problems. This includes placing HR solutions online through a company intranet or secure Internet site. This first tier requires skills in simplifying complex activities and in turning them into choices that can be self-monitored. Tier 2 work is where HR specialists create menus of choices, drawing on theory, research, and best practices in other companies. The second tier relies on skill in turning knowledge about an HR domain into a program or process. Tier 3 work comes when HR specialists consult with businesses and adapt their programs to unique business needs. The third tier involves skill in diagnosing problems and in creating solutions. Tier 4 work sets overall policy and direction for HR practices within a specialty area. This calls for understanding of strategy and the ability to adapt to a strategic context. While requirements for functional experts may vary across these tiers of work, some general principles apply to all functional specialists.

Functional expertise allows the specialist to create menus of choices for his or her business: what other companies have done, what others in the company have done, what he or she has come up with based on experience. These menus become the template that governs action in the specialist’s area of expertise. When a menu item is chosen, he or she is then able to guide its implementation. An expert can adapt the core principles and past practices in this domain to a specific application in the company. This means the specialist will contribute to the evolution of existing theory and practice.

The choices the specialist offers should be designed to shape processes related to his or her area of expertise so as to build the firm’s infrastructure and improve its ability to carry out its strategies. Compensation, for example, has processes for setting standards, allocating financial rewards, and allocating nonfinancial rewards. A functional expert should be able to map each process and apply the principles, resources, and tools to upgrade the process to meet current and impending demands.

HR professionals who serve primarily as functional experts often work in either menu design or process implementation. Designers must be HR experts who know trends and applications. Implementers offer operational support as they consult with individual businesses and apply their knowledge to specific settings.

Human Capital Developer

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Human Capital Developer

Capital comes from the Latin caput, meaning “head.” In business, it refers to the head—the chief or primary—assets of a firm (traditionally, its money). Increasingly, people are recognized as critical assets, and HR professionals manage this human capital: developing the workforce, emphasizing individual employees more than organization processes. The term has become a catchall for anything related to employees, from individual development to overall assessments such as Watson Wyatt’s Human Capital Index. In any case, human capital focuses on wealth created through and by people in the organization.

As human-capital developers, HR professionals focus on the future, often one employee at a time, developing plans that offer each employee opportunities to develop future abilities, matching desires with opportunities. The role also includes helping employees unlearn old skills and master new ones. In the rapidly changing world, employee competencies need constant upgrading. You are responsible for investing resources to shape employees for the future, not the past. At times, these employee development plans may be carried out online through an employee portal where firm opportunities are listed and employees ascertain if they are prepared for the opportunity. At other times, employee development conversations occur through HR programs, such as performance or career management.

Human-capital developers in centers of expertise set up development experiences that employees can access. They also coach leaders, acting rather like sports or music coaches. They focus on both behavior and attitudes, working from an understanding of individual differences to figure out how to motivate desired behavior. For example, in recent years, many
CEOs have been forced out, not because they did not understand the realities of the new economy and requirements of the organization but because they could not govern the organization appropriately. Many others have reshaped their behavior with the help of coaches who observed them in action and helped them change direction. Coaches are not always popular, but they deliver results, and they are accountable for the results they deliver. HR professionals coach by building trust, sharing observations, and affirming changes.

As stewards of human capital, HR professionals assume responsibility for positive team relationships. This may involve formal team building, or it may involve informal dialogues with team members to disclose and resolve differences.

**Strategic Partner**

HR professionals bring business, change, consulting, and learning know-how to their partnership with line managers, so together they create value. Strategic partners are business-literate and savvy. They partner with line managers to help them reach their goals. Part of this business partnership involves crafting strategies based on knowledge of current and future customers and exploring how corporate resources may be aligned to those demands. They help formulate winning strategies by focusing on the right decisions and by having an informed opinion about what the business needs to do. They focus on execution of strategy by aligning HR systems to help accomplish the organizational vision and mission. They become systems integrators, ensuring that all the different elements of a strategy plan come together in a coordinated way. They also attend to the process of strategy development by ensuring that the right people participate in strategy decisions. In practice, they are members of the management team with a deep expertise in people and organization but with enough business savvy to help shape future business directions.

As change agents, HR strategic partners diagnose organization problems, separate symptoms from causes, help set an agenda for the future, and create plans for making things happen. They have disciplined processes for change and implement those processes regularly in the organization, both with individual projects and with an overall road map for the future.

As internal consultants and facilitators, HR strategic partners advise leaders on what should be done and how, and they help manage the process for change. They become rapid deployment specialists—speed mavens who are not only thought leaders but also practice masters for getting things done. In this, they again resemble coaches, shaping points of view and offering feedback on progress, but doing so for groups rather than just individuals. With their expertise in the management of power and authority in teams, organizations, and alliances, HR facilitators help ensure that people are able to act when necessary without getting caught up in red tape and internecine conflicts.

**HR Leader**

Leadership begins at home, so HR leaders must lead and value their own function before anyone else will listen to them. And it’s easy to go wrong. For example, in one large company, HR experts directed a 2-week leadership development program that spent a few days on each major business dimension—finance, marketing, technology, globalization, and quality—and only 3 hours on HR on Saturday morning. The message was obvious: *Even HR professionals don’t think HR matters much.* When confronted with this observation, the organizer said essentially that he did not want to impose HR on business leaders. That meant he did not see HR as central to the business equation; he was not leading from an empowered HR perspective. Business leaders share the natural human tendency to learn more from what they see than from what they hear, so it’s essential to set a good example.

At the top of their organization, HR leaders establish an agenda for HR within the firm, both for the way people and organization come together to drive business success and for the way the HR function itself will operate. A well-led HR department earns credibility, and the reverse is also true. HR leaders who do not face up to and implement HR practices on their own turf lose credibility when they present ideas to others. This means that hiring, training, performance management, and communication within the HR function must all be top of the line.

HR leaders also look outward across the organization, helping all functions identify talent and
develop capabilities that deliver value. In addition, HR can combine uniquely with experts or executives in other business areas: with finance professionals to create intangible value, with marketing and sales to create customer connections, with manufacturing to ensure productivity, with service to guarantee responsiveness, with sourcing to secure quality, and with information technology to turn data into decisions. HR leaders can also be integrators of the work of other functions. Because HR leaders are rarely contestants for the top executive jobs and because their work is so central to the success of any staff function, they can often be a liaison among the staff groups, ensuring cooperation and consistency.

HR leaders can play an active role in corporate governance, serving as the conscience of the organization and raising and monitoring issues of corporate ethics. They are ideally placed to ensure that legal policies (such as blackout dates for stock transactions for executives with insider information) are understood and followed. They can help the executive team craft and publish values and behavior guidelines and then make sure that they are understood and followed. They can help with Sarbanes-Oxley compliance and other regulatory matters and help their boards be aware of and use proper governance guidelines.

HR leaders maintain and monitor the broader HR community of the organization—both the HR function itself and everyone else who is responsible and accountable for human resource issues. Some companies create separate departments for education, learning, organization design, consulting, or communication, and they restrict HR to traditional areas of people and performance. The authors of this entry believe that HR adds more value when all the elements are combined into one functional organization, but the decision to break them up need not isolate HR. It remains possible for HR leaders to build community even without direct lines of authority. The HR community also includes outside vendors who contract to do HR work and internal administrative staff who perform HR work. Bringing the HR community together is important because those who use “HR services” rarely make distinctions based on where the service comes from. As a community integrator, an HR leader sets broad themes for HR in the company, helps clarify roles, and monitors actions and results.

Importance

The five roles Ulrich and Brockbank suggest synthesize the diverse thinking in the field and represent an evolution of thinking about what an HR professional must do to deliver value. In the knowledge economy and with demographic changes, employees become ever more critical to a firm’s success. So, instead of just being employee champions, HR professionals must serve employees both today (employee advocacy) and tomorrow (human capital development). HR functional expertise may be delivered in multiple ways, and HR specialists must not only put HR online but also create innovative HR solutions to business problems. Strategic partners continue to exist, but it’s now known with more clarity the multiple roles they play: business expert, change agent, knowledge manager, and consultant. HR leaders also become more visible and central to the roles for HR. The pattern will continue to develop, but for now, these five roles capture what HR professionals do.

These five roles have been supported in Ulrich and Brockbank’s 25-year study of HR competencies. At this point, there are data from over 60,000 global respondents (about 40% line managers outside of HR) who reinforce these five roles.

No one plays all five roles to the same degree. Depending on where the HR expert works in the company, different roles have primary or secondary importance. Moving from one area of HR to another (service center to embedded HR, for example) requires changing roles. This shift affects HR careers. Many people choose to stay largely in one area (such as a center of expertise) and develop increasing depth in the roles required for that work. But anyone who moves to another area of the HR department will need to recognize and learn the script for the new role. When HR professionals master these roles and play them well, they add value.

Dave Ulrich and Wayne Brockbank

See also Behavioral Perspective of Strategic Human Resource Management; European Model of Human Resource Management; Human Capital Theory; Human Resource Management Strategies; Theory of Transfer of Training
Further Readings


**HUMANISTIC MANAGEMENT**

Humanistic management is a philosophy of management that emphasizes the interests of the employee in the manager-employee partnership. It is inclusive of a number of more specific theories that place a high value on human growth, potential, and dignity. In fact, humanistic managers don’t restrict fair and respectful treatment to employees alone, but rather, they accord this treatment to other stakeholders, such as customers, clients, vendors, and other members of the organizational community as well. They tend to maintain awareness of all organizational stakeholders rather than solely or mainly the shareholders or themselves at the expense of other stakeholders. Humanistic managers care how they accomplish organizational goals. They favor ethical codes for their organizations and pursue policies of global corporate social responsibility, including ensuring the human dignity of their workers in undeveloped countries and protecting the global environment. They work to ensure organizational and interpersonal justice for and among their stakeholders as well. Generally, they seek to belong or attend to professional and global associations with developed standards supporting and upholding human dignity, such as Social Accountability 8000 (SA8000), Fairtrade International, International Organization for Standardization (ISO) 26000, Corporate Accountability International, and others.

They endorse principles of sustainability, such as those promoted by groups like Forestethics or the UN Principles for Responsible Investment (PRI) and Global Compact initiatives. They welcome triple bottom-line reporting of some sort, in reference to the organization’s value to stakeholders (people), the global natural environment (planet), and to society at large (profit to society in the sense of economic output exceeds economic input resulting in overall benefit to society). Thus, humanistic management’s central insight is that all stakeholders—employees, customers, clients, shareholders, vendors, local and global communities—need to be treated with dignity and sensitivity if economic and environmental sustainability is to exist. However, it is difficult for a manager to operate humanistically unless the entire organization promotes a culture of humanism and organizational learning. This entry is focused on describing the fundamental principles of humanistic management, tracing its origins and the various theories associated with it, and examining its probable future as a management theory for widespread use in the 21st century.

**Fundamentals**

Humanistic management had its beginnings as a reaction to pre-20th-century management beliefs that one should manage by telling people what to do, monitoring them closely, and punishing them for nonperformance. At its worst, it was not very far removed from the slave labor of the 19th century—conditions could be physically abominable, and workers could be young children or women working 14-hour days at difficult, dehumanized tasks. The more enlightened managers of the day believed they could get the work they wanted from their workers if their messages were phrased properly; however, if they didn’t get what they wanted, they were justified in dismissing them. Workers in America thought they had few rights in this situation, and the ones who were immigrants, legal or illegal, English-speaking or not, simply felt that if they wanted to keep their jobs, they should keep quiet and do the best they could. Meanwhile, the father of “modern management,” Fredrick Taylor, wrote a book in 1911 titled *The Principles of Scientific Management*, in which he demonstrated through examples and pictures that there was a right way and wrong way to do any physical labor. There was no room for individual
differences or considerations among the workers in this view. By timing people and measuring their output, Taylor and other “efficiency experts,” like Frank and Lillian Gilbreth, charted and described standardized ways to maximize physical work. Soon afterward, garment workers from New York City and assembly-line workers from Michigan began forming unions and demanding better conditions, better pay, better treatment, and some kind of due process to address perceived grievances.

Following World War I, though, attention began to turn to the effects of work on job incumbents themselves. In their landmark Hawthorne studies, Harvard researchers, including Fritz Roethlisberger and Elton Mayo, discovered several important psychological and sociological variables that impacted workers. For example, to much surprise, there seemed to be no ideal illumination of the factory floor for wire assembly workers. Turn the lights up and performance improved, turn them up higher and performance improved even more, return them to the baseline illumination and performance inexplicably improved the most. Workers were given breaks, and their performances improved, but when the breaks were taken away, their performance went up another notch. Eventually, the team realized that the true key variable responsible for improved performance was the degree of attention being paid to the workers. That they were being treated with interest, listened to, and their words recorded, was what improved performance. Although Mary Parker Follett, the social worker turned management theorist, had a little earlier decried “bossism” and micromanagement during the 1930s and into the 1940s, it was Roethlisberger, Mayo, and associates who became the first academic proponents of humanistic management with the advent of their human relations school of management.

Over the course of the 20th century and the beginning of the 21st century, certain fundamentals of humanistic management have emerged. First, at the level of the individual, a general principle of humanistic management is the recognition of the “human factor” itself—that people are to be treated with respect, listened to, and expected to grow and improve. They all have individual needs, perspectives, emotions, and in general want to be seen as individuals rather than means to an end. Employees, in particular, are not simple extensions of workplace machines or purely economic entities whose univocal behavior is naturally directed and incentivized to gain a wage or salary. Rather, they are holistic, unique beings whose happiness is bound up in opportunities to be challenged, creatively and responsibly. They are not always or exclusively motivated by profit or money but also by the desire to feel good, happy, important, and engaged.

A second key principle of humanistic management is its recognition of and attention to the inevitable social processes between individual employees as well as within work groups. People have relationships with all those with whom they interact personally on a frequent basis. It is important to appreciate their diversity as members of different gender, ethnic, religious, and age groups as well as by skill or profession. Humanistic managers recognize and even celebrate individual differences and diversity in their employees as well as their customers, clients, vendors, and community members. They realize that the complexity of relationships affects the individuals themselves by helping to define realities and determine motivation. At the same time, it brings about conflict and other dynamics that must be managed for the good of the participants and the organization. If a manager does not pay attention to this “informal” level of organization—if cooperative norms and positive social relationships are not established and if individual attitudes and group social patterns are not harmonized with overall objectives—then the whole organization can be brought down.

The third important principle for the humanistic manager involves finding the proper balance between individual happiness at work and overall organizational efficiency. Research has shown that happiness on the job is not necessarily correlated with increasing productivity of workers or the organization. Although job satisfaction is correlated with lower turnover and absenteeism, which themselves are correlated with higher productivity, the history of research on the question is unsettled. There are just too many other variables that can go into productivity, from economic conditions to competitive conditions to the nature of a specific workforce, just to name a few. Yet humanistic managers recognize the inherent value of worker satisfaction and management scholars the validity of satisfaction as a research variable and, as such, seek a synergistic relationship between managerial empathy for others and methods for achieving organizational performance goals.
A fourth fundamental principle of humanistic management is its raised level of ethical concern broadly applied across all stakeholders. Adam Smith’s idea that individuals will naturally follow their self-interest and personal desire to help others and that an “invisible hand” will thus guide the organization’s welfare positively, all for the benefit of society as a whole and without visible restraint or oversight by formalized governance mechanisms, is not a general belief of the humanistic manager. Instead, humanistic managers believe that they must proactively promote ethical codes and training within the organization, demand accountability of all employees, and ensure that the organization maintains sound social responsibility and citizenship principles within its industrial or organizational group as well as within its local and global communities. It is their duty within the organization to guard against ethical lapses that may hurt others directly or indirectly, for example, negative economic or social consequences, within the society and society as a whole.

Evolution

While the politics of labor had resulted in the creation of the National Labor Relations Board in 1934 and the passing of the Fair Labor Standards Act in 1938 in the United States, both of which protected workers from management practices commonly perceived as unfair, development of management theory was proceeding on various academic paths, many of which were focused on valuing the human dignity of employees. In the aftermath of Roethlisberger and Mayo’s work, one major figure in management theory emerged between the mid-1940s and the mid-1960s to extend their thinking. Douglas McGregor, who worked as a supervisor of gas station attendants and a soup kitchen organizer in the 1930s before returning to college and becoming a Massachusetts Institute of Technology (MIT) professor, published a book in 1960 titled *The Human Side of Enterprise*, in which he faced head-on the subject of how managers dealt with their employees through managerial assumptions about them. Theory X assumptions were used by managers who saw their employees as inherently lazy, in need of being watched closely or they would shirk work, children grown larger and looking to cheat their manager and their organization wherever possible. Theory Y assumptions, on the other hand, saw employees as wanting to do a good job, wanting to do better, interested in challenge, wanting to grow as human beings, seeking responsibility and achievement, and looking to be proud of their accomplishments. Managers who operated primarily under Theory X assumptions tended to use techniques that reflected an expectation of failure among their employees and, as a result, their employees were more likely to fail. When treated under Theory Y assumptions, however, employees were likely to rise to the occasion and do work of which they and their managers were proud. These kinds of employee behaviors may have constituted what Robert K. Merton would a little later call a “self-fulfilling prophecy.” The idea that managers needed to look more strongly at the human side of the business equation and consider the significance of their assumptions became quite popular with the advent of McGregor’s best selling book in 1960.

McGregor’s management book was influenced by the work of a number of psychologists who were writing in a similar vein. Carl Rogers introduced the notion of “unconditional positive regard” as a part of his “person-centered” approach to counseling patients and eventually to teaching students and to treating humans in any relationship where a cooperative end was sought. No matter how poorly someone behaved, the best way to get them to behave better was to assume an attitude of respect and positivity about them. He wrote extensively about treating people with empathy, putting yourself in their place as best you could, and about “active listening,” a technique meant to encourage people to say what they were thinking instead of steering them one way or another. In addition, Jack Gibb, a pioneer in humanistic psychology and organizational development, wrote books and articles about trusting people and encouraging a supportive climate to prevent “defensive communication” by following six rules in one’s communication: use speech that is descriptive rather than evaluative, be problem-oriented rather than controlling, encourage spontaneity rather than strategizing, be empathic rather than neutral, provide a sense of equality rather than superiority, and be provisional rather than dogmatic.

Contemporaneous with Rogers, motivational psychologist Abraham Maslow wrote several books on his hierarchy of motivation, human potential, values, and self-actualization—the process of achieving one’s greatest potential through “peak experiences.”
Many others came to make up the humanistic psychology school, publishing their articles in journals such as the *Journal of Humanistic Psychology* and the *Humanistic Psychologist*. Humanistic psychology applied to management eventually led to humanistic management.

Although Maslow’s theories would later endure criticism from Geert Hofstede as not appropriate for collectivist cultures and from others such as Clayton Alderfer whose empirical studies suggested they needed modifications, his work had a great influence on several management theorists, including Frederick Herzberg. Herzberg’s contribution, later described in what is still the most popular *Harvard Business Review* article ever written, “One More Time: How Do You Motivate Employees,” was to utilize Maslow’s work to develop “two-factor” or “hygiene” theory. Herzberg’s theory suggested strategic directions for managers, who should design jobs and policies to satisfy worker hygiene—such as workplace comfort, pay, security—needs first and then design opportunities for growth through challenge and realizable achievement on the motivator level. He created the term “job enrichment” for this process. Psychologists J. Richard Hackman and Greg Oldham further refined how jobs should be designed or redesigned to achieve maximum motivation potential for those with moderate to high growth needs in the 1970s with their work on the job characteristics model. Meanwhile, Victor Vroom’s work, begun in the 1960s on expectancy theory, also helped managers understand work motivation. It posited that the degree of effort that persons put in to effect performance was dependent not only on their desire but also on the strength of their belief (expectancy) that they were capable of successful performance with valued outcomes. Knowing this thought process could presumably help managers coax successful performance, ensure valued outcomes, and eventually lead to executive coaching to help develop leadership skills.

The application in the workplace of all of these theories as well as the ever increasing education level of the workers helped facilitate more dialogue between managers and employees. As managers began to value many employee ideas, and, as they realized the importance of tapping the motivation of their employees to achieve organizational goals, they developed more and more programs for employee involvement in the enterprise. Humanistic managers were learning that trust, authentic communication, and respect could pay off in human and economic terms.

**Importance**

**Recognition of Employees as Valued Human Capital**

With increased manager-employee dialogue came continuous improvement programs, profit-sharing and gain-sharing discussions, employee empowerment programs, and team building within organizations as employees became strategic partners across functional areas within the organization and at varying levels with management. Valuing diversity, too, has become an important part of such efforts because of the increasing diversity of the workforce and concomitant legal regulation of the selection process as well as the harm of communication barriers due to diversity issues. Thus, organizations have created departments dedicated to diversity sensitivity and management. It is not uncommon to see even smaller organizations with management titles, such as vice president of valuing differences and vice president of people and culture. In addition, management has not lost sight of the simple fact that in a global economy, its customers are more and more diverse. This entire process of increasing levels of communication has caused management to take more care than ever to protect and develop their “human capital.”

In many ways, humanistic management with its more human-centered approach to helping organizations achieve their goals has drawn attention to the functions of selection, training, career development, managing change, and managing feedback that have become the focus of human resource management departments in the modern organization. It has given rise to the study of organizational behavior as a staple of a business education. Although managers and scholars have learned that a happy worker is not always a productive worker unless certain other conditions are present, it has focused new attention on the value of seeking authentic happiness within the organization. Positive organizational scholarship (POS) researchers have begun to find that unlocking the secrets to human resilience, vitality, desire to achieve, creativity, and growth can bring an organization to an uncommon level of excellence. Martin Seligman and others have shown that “well-being
theory” can create greater individual happiness in organizations from schools to banks to the military. Empirical studies prove that training for well-being results in increased productivity as employees learn to flourish. In his book, *Flourish*, he points out that the new bottom line of a positive corporation is that profit comes from creating positive emotion, engagement, positive human relations, meaning (“belonging to and serving something greater than the self”), and the opportunity for accomplishment (the first letters of each source spelling PERMA). Ultimately, the goal of a society should be the well-being of its members; corporations would be served well by attending to the same goal.

**Role of Corporate Social Responsibility**

With the involvement of more communication among all stakeholders in the enterprise, we have entered a time when values, ethics, and social responsibility have become more important in business. There may be many reasons for this, but humanistic management has played an important role. If stakeholders are going to be treated with more respect and dignity than ever before, the relationship must proceed ethically, sincerely, and responsibly. There is a growing realization that organizations have profound responsibilities to the society that has allowed them to exist through its legal registration and incorporation mechanisms. The stakeholder community as a whole must be treated with respect. In the case of organizations of size, the community at issue is normally global. International law and trade organizations as well as local regulations can determine where a company’s products will be allowed to be sold in the regional and global marketplace. Decisions are made based on whether a country or region’s people will truly benefit from such commerce. If workers are considered to have been exploited in the manufacture of products or the company is considered to be irresponsible with regard to its relationship to the environment in the manufacture of the product, or if the company is considered to be exploiting any of its customers or their intellectual property, permissions will be withheld. This has resulted in ever-growing departments of corporate social responsibility reporting to the highest level within the organization.

**Impact on Management Education**

Finally, where should U.S. business schools be focusing their curricula according to the humanistic management proponents? Lyman Porter, Lawrence McKibbin, Jeffrey Pfeffer, Christina Fong, and Henry Mintzberg have critiqued current business school education and suggested more humanistic alternatives. The Aspen Institute has become well known for inviting academics and executives to programs on corporate ethics and social responsibility. In a “humanism in business” series of books, many global authors, including members of the Humanistic Management Network, specifically present Humanistic Management Education and Humanistic Business Schools (HUBS) as the way forward. Humanistic management thinkers, writers, and executives have had a major influence on the direction of management research and education beginning from their mid-20th-century roots. The 21st century should see increased attention to its tenets as the economy grows more global, the world grows more populous, resources become scarcer, and cooperation and collaboration become more necessary.

William P. Ferris

See also Corporate Social Responsibility; Empowerment; ERG Theory; Expectancy Theory; Human Capital Theory; Job Characteristics Theory; Positive Organizational Scholarship; Scientific Management; Self-Fulfilling Prophecy; Stakeholder Theory; Theory X and Theory Y; Triple Bottom Line; Trust; Two-Factor Theory (and Job Enrichment)

**Further Readings**


The term *hypercompetition* is associated with extreme environmental turbulence, with industries and markets where competitive advantage is under constant attack, and with strategies to cope with such environments. The strategic concept of hypercompetition was developed in the mid-1990s, coincident with deepened interest in dynamic external environments and the issues associated with rapid change. Following a brief background, hypercompetition is reviewed here as a macro/external-environment and from a micro-firm strategy perspective. Initial research and recent academic studies are then summarized, followed by open questions and areas for further development.

**Fundamentals**

Although dynamic environments and intense competition are consistent themes in business literature, the pace of change and competitive pressure has increased over the last several decades. This new environment has been characterized as discontinuous and uncertain, where change is nonlinear and strategic outcomes are less predictable. The most extreme examples of turbulence and competitive complexity are characterized as hypercompetition. In hypercompetitive markets, the traditional goals of cost and quality, timing and know-how, strongholds, and deep pockets have been made less important in an environment where competitive advantages are transient. The pace of change has collapsed the traditional competitive cycle, and equilibrium is impossible to sustain.

The term *hypercompetition* is now generally used to denote all highly competitive and turbulent markets, industries, and competitors. For example, the mobile phone market is often described as hypercompetitive, based on the relentless, rapid introductory cycles of new models and features.

Note that hypercompetition is a relatively broad concept and therefore is difficult to specify and measure. The claims that hypercompetition is widespread remain largely undocumented, and there are moderating forces against hypercompetition, such as opportunities in new, emerging global markets. Use of the term *hypercompetition* continues in the business press, primarily in describing rapid changes in high-technology industries, such as tablet computing, but it has also arisen in disparate markets such as rankings for MBA programs.

Hypercompetitive markets can be better understood by looking at the macro level of external drivers. Externally, hypercompetition is enabled by global integration of markets, rapid change in technology, and the combined effect of these forces on the extended value chain, including buyers, suppliers, and competitors. Globalization changes the quantity and quality of the value chain by dispersing it and then integrating activities across borders. These changes set the stage for hypercompetition on an industry-by-industry basis. As a “feedback loop,” intense competition for resources in the value chain and for markets reinforces and accelerates hypercompetitive conditions.

Hypercompetitive markets are also being fueled by rapid changes in consumer demand, the increased knowledge base of firms and workers, the declining height of entry barriers, and the growing number of alliances between firms. Lowered entry barriers affect strongholds, and deep pockets are under attack by cross-border and cross-industry alliances.

At the micro-firm level, a hypercompetitive environment may dictate a new, different strategy. In hypercompetitive environments, the key assumption of a stable market is no longer valid, so the familiar strategic frameworks of positioning in favorable industries or owning valuable and rare resources with the objective of gaining a sustainable strategic advantage may no longer be applicable. Successful strategies in a hypercompetitive market are more akin to the Austrian school of Schumpeter’s creative destruction or a high-speed contingency strategy. The concept of dynamic capabilities may also apply in hypercompetitive environments as a means of quickly reconfiguring, acquiring, or shedding resources. But with hypercompetition, any strategic advantage is temporary, so the only viable strategy may be to keep replacing an advantage—including one’s own advantage. Hypercompetitive strategies are based on advantages that are created quickly,
but a competitive lead is temporary and has to be constantly renewed.

Initial academic studies were concerned with defining the term and establishing hypercompetition as a prevalent condition. In the 2000s, a few researchers addressed how hypercompetitive strategies might differ by industry life-cycle stage. The link between globalization and hypercompetition was also explored, particularly in terms of the effect of a fragmented and competitive global value chain. Recent academic interest has included exploration of the linkage between macro and micro hypercompetitive environments and deeper examinations of competitive dynamics.

These recent studies are addressing the need for a better understanding of hypercompetitive strategy, including dependency on the number of competitors, the individual strategies of the players, the cost of each competitive cycle, the decision speed and aggressiveness of the top management teams, and whether there are complementary products and services. At the macro level, a clearer understanding of the cyclical nature of competition is emerging and recent studies have refined the measurement techniques.

This renewed interest in hypercompetition holds the promise of enhancing the usefulness of the concept and solidifying it as an important field for further academic study. Additional areas for future research include the effects of Internet and computing technologies on hypercompetitive value chains, with the expectation that these technologies will increase the rate of global hypercompetition. Further explorations of competitive dynamics and the link with different external environments would further the understanding of strategic options. Another area for further investigation is the increasing role of small and medium-sized enterprises, as opposed to larger multinational corporations, as technology and an accessible value chain open up the global market to smaller firms. Finally, the link between clusters of production and hypercompetition could profitably be explored in theoretical and in empirical research.

For managers, hypercompetitive markets can cause a focus on short-term advantages and disruptive strategies rather than satisfying customer needs with unique value propositions. When faced with a hypercompetitive market, strategic options include competing on value, finding defensible submarkets, and using vertical as well as horizontal consolidation strategies—or simply outsmarting the competition with dramatic, game-changing strategies. However, margins are squeezed in hypercompetitive markets, and a better path to success may be to avoid the head-to-head hypercompetition altogether.

Don Goeltz

See also Business Policy and Corporate Strategy; Competitive Advantage; Core Competence; Dynamic Capabilities; First-Mover Advantages and Disadvantages; Profiting From Innovation; Strategic Decision Making; Technology S-Curve

Further Readings


Image theory is a cognitive/behavioral theory of decision making. It differs from traditional behavioral decision theory in that it is not based on the analogy between decision makers and gamblers making risky bets. This is because studies of professional decision makers (primarily managers but also firefighters, military officers, and so on) show that they seldom behave like gamblers and they seldom view their decisions as bets. Unlike gamblers, they seldom entertain multiple options. Instead, most of their decisions are about a single option—usually a course of action in pursuit of a specific set of desirable outcomes. Unlike gamblers, they seldom make a decision and passively wait to see what chance will deliver. Instead, they decide on a course of action and work hard to make sure that it yields the results they want. Unlike gamblers, they seldom seek to maximize winnings (profits) to the exclusion of everything else. Instead, they deliberately select goals and take purposeful actions that move them and their organizations toward a valued future.

Building on this, image theory’s central management insight is that professional managers create an image of what they want their organization’s future to be and decisions and subsequent actions are directed toward ensuring that the image becomes reality. In this entry, we briefly review the fundamentals of the theory, examine some of the research deriving from the theory, and describe a version of the theory designed to account for decisions about voluntary employment turnover.

Fundamentals

Image theory defines a decision option, not as a win/lose gamble but as a plan of action for attaining a goal. Decision making consists of evaluating the compatibility of an option’s goal and plan with the decision maker’s or organization’s values, previously existing goals, and ongoing plans. Options that violate values, contravene existing goals, or interfere with ongoing plans are deemed incompatible with the decision maker’s and organization’s desired future and are rejected. Options that are compatible with the desired future are adopted and their plans implemented. Image theory’s domain is the actions of individual decision makers, even if they are working in groups. This is because, from a psychological point of view, it is incorrect to speak of groups or organizations as making decisions. Instead, a single agent or, more frequently, a group of agents is entrusted with making the collective’s decisions. This means that the individual agent must make a decision and, when other agents are involved, a final decision must be negotiated for the organization as a whole. As a result, in most cases the individual, even a powerful executive, must take into consideration the arguments and the constraints posed by the other parties to the decision.

The theory posits three kinds of cognitive structures, called images, and two kinds of decisions, called adoption and progress decisions, and proposes a model of the decision mechanism, called the compatibility test. The key concept is that most of the work of decision making is done by screening out unacceptable options. And because most decisions
are about a single option—accept or reject—if the option survives screening, it is accepted. If not, it is rejected and, in many cases, another option is sought to replace it, whereupon the screening process occurs again. When there are multiple options under consideration and only one survives screening, it is accepted. If more than one survives, the least unacceptable is chosen from among them.

**Images**

*Value image* constituents are the decision maker’s imperatives for his or her behavior and the behavior of the organization as well as criteria for the rightness or wrongness of any particular decision about a goal or plan for attaining that goal. Values as imperatives generate *candidates* for goals to pursue and plans for pursuing them. Values as criteria determine the acceptability of externally generated candidate goals and plans.

*Trajectory image* constituents are previously adopted goals. The term *trajectory* is used to imply extension in time—the decision maker’s vision of the desired future.

*Strategic image* constituents are the various plans that have been adopted for attaining the goals on the trajectory image. Each plan is a sequence of potential *tactics* leading from goal adoption to goal attainment, a sequence that can be revised in light of information about the changing environment in which implementation is taking place as well as about the success of the plan as it is implemented. Because a plan is inherently an anticipation of the future, it constitutes a *forecast* about what will happen if its component tactics are successfully executed in the course of its implementation.

**Decisions**

*Adoption decisions* are about the compatibility of an option’s goal and plan with the existing constituents of the value, trajectory, and strategic images. Compatibility leads to adoption of the goal and plan; incompatibility leads to rejection.

*Progress decisions* are about the effectiveness of an implemented plan in promoting movement toward its goal. This turns on the compatibility of the desired goal and the forecast of what will happen if plan implementation is continued. Compatibility leads to continued implementation. Incompatibility triggers suspension of implementation until the plan can be repaired or replaced with one whose forecast is sufficiently compatible with the goal to warrant its adoption and implementation.

**Compatibility Test**

The *compatibility test* is the mechanism for assessing compatibility in both adoption and progress decisions. For adoption, the test assesses the discrepancy between the defining features of an option’s goal(s) or plan and the pertinent constituents of the value, trajectory, and strategic images. For progress decisions, the test assesses the discrepancy between the pertinent features of the plan’s forecast and the defining features of its goal. Compatibility decreases with increases in the number of significant discrepancies. Discrepancies are defined as negations, contradictions, contraventions, preventions, retardations, or any similar form of disparity between what is offered by an option’s goal(s) or plan and the decision maker’s values or between an implemented plan’s forecast and its existing goal.

In its simplest form, the *decision rule* for the compatibility test is that if the sum of the discrepancies exceeds the decision maker’s *rejection threshold*, the candidate is rejected; otherwise, it is accepted. The threshold is defined as the sum of discrepancies beyond which the decision maker regards the adoption candidate or implemented plan as incompatible with his, her, or the organization’s values, goals, and ongoing plans.

If there is only one option under consideration and it survives the compatibility test, it is adopted. Adoption means that its goals are added to the trajectory image and its plan is added to the strategic image and plan implementation begins. If there are competing options and only one survives the compatibility test, it is accepted. If there are competing candidates and more than one survives the test, the survivors constitute a *choice set* from which the least unacceptable is chosen. In progress decisions, there is only one plan being implemented; if its forecast is incompatible with its goal, implementation is stopped. If its forecast is not incompatible with its goal, implementation continues and is periodically reevaluated for further progress.

**Importance**

Empirical research has focused on the compatibility test, in both laboratory and organizational settings, and has supported the image theory
formulation for both adoption and progress decisions. Among the results for adoption decisions is evidence for the existence of the rejection threshold: (a) the finding that missing information about the features of an option’s goal(s) or plan is treated as a discrepancy and lowers the rejection threshold, making it easier to reject options about which too little is known; (b) the finding that when there are no surviving options, decision makers prefer to search for new ones rather than reassessing those they have rejected, but if no new options are available and reassessment is necessary, they adjust their rejection thresholds so at least one option survives; (c) the finding that decision makers give greater weight to important features when assessing compatibility; and (d) the finding that under time pressure they adjust their rejection thresholds so fewer options are rejected in order to avoid overlooking good ones. Studies of progress decisions show that decision makers are more likely to continue implementation and to commit more resources when progress is being made but that continued progress leads to less careful assessment; more careful assessment is saved for when there appears to be trouble.

In contrast to 30 years of work on adoption decisions, progress decisions, and the compatibility test, until quite recently there has been virtually no work on images. This changed with the reformulation of images as cognitive narratives and the recasting of image theory as a narrative-based theory. Space limitations prohibit description of the new formulation; interested readers are referred to the readings listed in the Further Readings section for this entry.

As a consequence of providing an alternative to the established, gamble-based view of decision making, image theory has allowed both researchers and managers to rethink decision making in a variety of organizational fields: auditing, planning, supervision, job search and job selection, client selection, the effects of organizational culture on decisions, consumer decisions and social responsibility, marketing and communications strategies, and employee turnover. For example, in the past, decisions about voluntarily leaving one’s job were conceived of as the result of mentally balancing the risks and payoffs of staying on the job against the risks and payoffs of leaving. Contrast this with the image theory-based model, called the unfolding model of voluntary employee turnover, which, in addition to an important revision of the role of job satisfaction, incorporates image theory’s value, trajectory, and strategic images into the job-leaving process. The model posits four decision paths (or prototypical forms) for quitting one’s job:

- **Decision Path 1** begins with a jarring negative event that precipitates thoughts of quitting. This prompts a memory probe seeking a preexisting, unimplemented plan for quitting or job change on the strategic image. If such a plan is found, it is implemented and the decision maker quits his or her job. If a plan is not found, one of the other three decision paths is enacted.
- **Decision Path 2** is initiated by a negative event for which the decision maker has no preexisting plan. Instead, he or she incorporates the negative event’s implications into his or her forecast about the job and assesses the features of the forecast with the constituents of his or her value, trajectory, and strategic images. If the forecast is compatible with the images, the decision will be to stay in the present job. If the forecast is incompatible, the decision will be to quit.
- **Decision Path 3** also begins with an event, but it can be positive, neutral, or negative. Path 3 is taken when the decision maker has time to be reflective, search for alternatives, and make comparisons. Initially, the compatibility of the forecast about the present job and the three images is assessed. If they are compatible, the decision will be to stay with the present job. If they are incompatible, the compatibility of the forecast for each of the found alternatives is assessed. If only one alternative is found and its forecast is compatible with the decision maker’s images, he or she quits and pursues the alternative. If multiple alternatives are compatible with his or her images, the most compatible is then pursued.
- **Decision Path 4** involves no precipitating event and is affectively driven. It typically begins with routine assessment of the compatibility of the decision maker’s forecast about his or her present job with his or her value, trajectory, and strategic image. Compatibility is experienced as job satisfaction and leads to the decision to
Individual Values

Values are the guiding principles that underpin the way people think, behave, and are motivated. They serve as standards that guide people’s action, judgment, and the choices they make, as well as their attitudes and behaviors. Values are generally “stable” and accompany people into every facet of life—societal, organizational, cultural, political, economic, and religious. The general stability in values tends to differentiate them from attitudes, which may be more readily altered by events or situations in which people find themselves. For example, a person might have strong values in relation to “equal opportunity.” However, in a situation of severe job shortages, the same person might vote in favor of jobs being allocated to “local” employees rather than “foreign” employees, on the basis of the outcome being more beneficial to the local community. This entry explores definitions of the concept of individual values and comments on similarities as well as differences. It provides an insight into well-known value typologies and frameworks used to provide further understanding and enable the measurement of individual values. The entry also draws attention to the impact of cultural values and the need for managers to be cognizant of these values at a time of increasing globalization and intercultural interactions.

Fundamentals

A glance at the literature on individual values identifies an array of definitions and conceptualizations. Despite differences, there is consensus that values are a central determinant in an individual's behavior and motivation in societal, organizational, and work-based contexts. Some researchers, such as Milton Rokeach and Shalom Schwartz, view individual values as “goals.” Shalom Schwartz, for example, defines values as desirable and trans-situational goals that vary in importance and serve as...
guiding principles in people’s lives. Milton Rokeach distinguishes between instrumental values (which signify desirable modes of conduct) and terminal values (which signify desirable end-states of existence), with the two dimensions being interlinked. For example, in his values survey, Rokeach identifies “a comfortable life” as a terminal value, while he identifies “being ambitious” or hard working as an instrumental value that enables achievement of the terminal value.

A popular definition that captures many facets of individual values is that offered by Robin Williams. He contends that one’s values are the standards that we apply in all situations we encounter, not only to determine our action and guide the position we take on various social, political, religious, and other ideological issues but also to evaluate and judge ourselves, as well as to compare ourselves with others.

Value Types and Frameworks

Rokeach sought to bring consistency in understanding the nature of individual values. He identified five assumptions that could be made: (1) The total set of values that an individual has is relatively small; (2) all people have similar values but to different degrees; (3) values are organized into value sets and systems and are often interrelated; (4) values can be traced to culture, society, and its institutions; and (5) the consequences of human values and actions are widely evident in all phenomena and can be investigated.

The notion of value types is elaborated on by Rob Gilbert and Brian Hoepper, who identify a set of values, each with their own associated concepts. These include the aesthetic (e.g., beauty), economic (e.g., efficiency and productivity), intellectual (e.g., reasoning), political (e.g., justice and freedom), moral (e.g., right and wrong), and environmental (e.g., sustainability).

Schwartz developed a theoretical framework that enabled researchers to systematically identify and measure the value priorities of individuals across societies, organizations, institutions, and cultures. This framework identifies a comprehensive set of 10 motivational value types recognized in 60 nations across all continents of the world. The 10 value types, constructed in a circular structure, reflect the relationships between the values, including elements of conformity and conflict that we all experience. The value types include power, achievement, hedonism, stimulation, self-direction, universalism, benevolence, tradition, conformity, and security. Schwartz and his colleagues designed a survey instrument, the Schwartz Value Survey (SVS), comprising 57 individual values categorized into the 10 value types. The survey seeks information on how important each value is to the respondent, as a guiding principle in one’s life, on a scale ranging from of supreme importance to opposed to my values. The SVS is widely used to measure individual values across cultures and, in combination with work value surveys, to measure individual values in the workplace and in organizations.

Application to Management

Understanding human values is an ongoing and never-ending process. Consequently, the discussion and debate on how the concept of individual values is defined, how values manifest themselves in people’s lives, and how they can be measured and comparatively understood will continue. Rokeach contends that by developing greater self-awareness in relation to one’s own and others’ values, it is possible to influence the values of people in socially desirable directions. Clearly, this is becoming more evident as the impact of modern technology and the process of globalization intensifies, bringing people closer together, with the accompanying challenge of better understanding one’s values and those of others. Given their importance in influencing human behavior, individual values will continue to be fundamental constructs to be further researched and understood.

Modern-day managers can use theoretical insights into basic individual values to better understand the attitudes, behaviors, and motivation of their employees and leverage this knowledge for improved performance in the workplace. The insights can also be used to more effectively fulfill employee aspirations, provide appropriate rewards and incentives, manage diversity in the workplace (including variation in value priorities across factors such as gender, age, educational background, and culture), and create successful cross-cultural or transnational teams—a common feature in modern organizations.

Prem Ramburuth
Influence tactics are the verbal, behavioral, and symbolic actions used by people in organizations when attempting to gain compliance from others. In healthy workplaces, managers, employees, and team members are engaged in exercising influence for a variety of work and personal reasons. Exercising influence in organizations is a continuous social exchange process in which leaders, followers, and peers are both initiators and recipients of influence attempts. A person’s influence usage stems from a combination of factors, such as personality, habit, power, desires, roles, setting, and culture. At their essence, management and leadership involve both exercising influence and being open to influence attempts of others. During the past 30 years, researchers developed empirically based categories of influence tactics. Various individual tactics cluster into comprehensive influence strategies, and they, in turn, combine into mixes of influence styles that people use daily in their organizations. These influence strategy categories and metacategories of styles provide a common language of influence enabling understanding and training and ultimately exercising influence in organizations. In this entry, the seven most commonly used influence strategies are described, followed by descriptions of four influence styles based on mixes of those influence strategies.

Fundamentals

Influence Strategies

The copious array of specific individual influence tactics (e.g., “Please do this,” “I need that done,” or “Just do it now!”) cluster into seven comprehensive influence strategies that have widespread application across numerous cultures. The following descriptions are of the strategies listed in their approximate order of popularity in North American organizations:

Reason. This strategy consists of tactics relying on data, facts, and logical argument to support requests. Reason is the most popular influence strategy used in organizations and involves planning, preparation, and expertise. Reason is a powerful strategy that helps create an image of competence and expertise. The basis for reason is the user’s own knowledge, intellect, and ability to communicate.

Friendliness. This strategy relies on creating goodwill toward the user by using flattery, praise, and empathy. Friendliness seeks to create a favorable impression so that the “target” person will be inclined to comply with the user’s requests. Using friendliness successfully depends on the user’s personality, interpersonal skills, and sensitivity to the moods and feelings of others. Overall, management and employees use friendliness almost as much as reason, because people who are thought well of are often “heard.”

Bargaining. This strategy relies on trading benefits and negotiating exchanges. The social norms of obligation and reciprocity underlie bargaining. Users of this tactic rely on exchanges based on the user’s own time, effort, skill, or organizational resources desired by another. Although common, bargaining is used less with supervisors than with peers or subordinates.

Coalition. This strategy relies on mobilizing other people in an organization to assist the user. The
operative principle in using coalition is that there is “power in numbers.” The user’s power in using this strategy is based on alliances with peers and others in the organization. Coalition is a complex strategy that requires substantial social skill and effort to be successful. However, it is widely used, although less with subordinates than with peers or supervisors.

**Assertiveness.** This strategy relies on persistence, demands, and being forceful. Often, this means not taking “no” for an answer but without being hostile. Assertiveness creates the impression that the user is “in-charge” and expects compliance with requests. Often, assertiveness incorporates visible displays of emotion and temper. This strategy is used more frequently with subordinates or peers than with those who have more power than the user (i.e., supervisors).

**Higher authority.** This strategy relies, formally or informally, on gaining the assistance of higher management for support, to apply pressure, or otherwise intervene with a “target” person. The user of this strategy may appeal up the “chain of command” for assistance or request that higher management directly exercise influence on the user’s behalf. Higher authority is not widely used and is used substantially less with supervisors than with peers or subordinates.

**Sanctions.** This strategy relies on rewards or punishments to gain compliance from others. Thus, offering a desirable benefit or an undesirable consequence is perceived as pressure to comply with the user’s request. Sanctions are a potentially powerful short-term influence strategy that depends on the user’s access to rewards or punishments and on the ability to credibly threaten or actually deliver them.

**Influence Styles**

Individuals typically mix influence strategies in their organizational relationships with supervisors, peers, and subordinates. The seven distinct influence strategies frequently cluster into four general meta-categories of influence known as influence styles, and they exist in most organizations:

**Shotguns.** They gain compliance from others by using the full range of influence strategies from reason to sanction with substantial frequency. Typically, shotguns use assertiveness more than any other strategy, although they frequently use all the strategies extensively. They seek to accomplish much and perceive themselves to have the power to do so.

**Bystanders.** They employ few influence strategies and have little power or few reasons for exercising influence in their organizations. Social psychologists describe this condition as “learned helplessness.”

**Tacticians.** They substantially rely on reason to influence others, but they employ substantial levels of the other influence strategies. Tacticians have power and have many objectives that they wish to accomplish. They portray themselves as rational and deliberately thoughtful.

**Ingratiators.** They rely heavily on friendliness to gain compliance from others, especially those they perceive as powerful (i.e., supervisors). Although ingratians have power and use a variety of influence strategies, they obtain compliance with their requests by attempting to create goodwill and a favorable impression of themselves.

Successful organizational participants, whether management or rank-and-file employees, use influence tactics and styles appropriate to their personality, power, reasons for influencing, who they are trying to influence, and specific organizational culture.

*Stuart M. Schmidt*

**See also** Cultural Values; Leadership Practices; Management Control Systems; Organizational Culture Model; *Practice of Management, The*; Social Exchange Theory

**Further Readings**


Informal communication is premised on the view of organizational communication as systems of information flow with both formal and informal channels. While the formal refers to information flow through official channels, such as newsletters and memos, based on formal organizational and authority structure, the informal refers to emergent, unofficial, and unsanctioned communication among organizational members through informal social contacts. Although there is no overarching model of informal communication, a social network perspective has been a predominant theoretical framework, especially in earlier studies. The focus has been on understanding the informal communication network, also known as the grapevine. Recent theoretical focus has gradually shifted to gossip as a key element of informal communication. The relevance to management in understanding informal communication resides in the various functions it performs in organizations. For example, research reveals that informal communication plays a significant role in administrative and technical decision making, innovation and creativity, power relationships, change management, and socialization. This entry presents foundational theoretical understandings of informal communication in earlier studies followed by a discussion of recent theoretical development and implications for modern management.

Fundamentals

K. Davis’s seminal research on informal communication reveals several characteristics of a grapevine. First, grapevine information travels in all directions both across and within chains of command and is transmitted by both organizational members and nonmembers, such as employee spouses. Second, organizational members in the network can be separated into three categories based on the way they handle information: isolates, liaisons, and dead-enders. Isolates are those who have a low tendency to receive any information, liaisons have a high tendency to both receive and pass on information to someone else, and dead-enders have a high tendency to receive information but a low tendency to relay information to others. Studies by Davis and Harold Sutton and Lyman W. Porter showed that only a small percentage of organizational members actually perform the liaison function, which proves to be critical to the existence of an informal network. Third, the particular network pattern of informal communication identified by Davis in his data is what he calls a cluster chain. In this pattern, an individual passes on information to several individuals (Cluster 1), one of whom shares it with another group of people (Cluster 2); one person in Cluster 2 then passes it on and forms another cluster and so on.

In addition to network characteristics, research by Suzanne Crampton, John Hodge, and Jitendra Mishra identified several conditions that may affect grapevine activities in organizations. These conditions include (1) when the subject matter is widely perceived as important; (2) when formal communications are ambiguous or unclear; (3) when an organizational environment is perceived as insecure, threatening, and/or untrustworthy; and (4) when the future is perceived as uncertain. Under one or more of these conditions, organizations tend to witness heightened levels of grapevine activities.

Recent studies on informal communication give special attention to one of the grapevine’s components—gossip. According to Nancy B. Kurland and Lisa Hope Pelled, gossip, which can be positive or negative, is defined as the informal and evaluative talk among a few organizational members about another member who is not present. Social network analysis by Travis Grosser, Virginia Lopez-Kidwell, and Giuseppe Labianca showed that members who share both friendship and workflow ties engage in higher levels of both positive and negative gossip than do those sharing only one type of relationship. In addition, the passing of negative gossip relies heavily on trusting friendship at work but not on task-based relationship.

Mike Noon and Rick Delbridge argued that gossip serves both individual and group functions. At the individual level, gossip functions to gain social influence, understand sociocultural environment, and entertain. At the group level, gossip helps maintain group cohesion and facilitate social control. In particular, research suggests significant implications of gossip on power relationships in organizations. For example, using John French and Bertram Raven’s typology of power, Kurland and Pelled conceptually posited that gossip has varied relationships
with different types of power moderated by factors such as gossip credibility, relationship quality, and organizational culture. Empirically, Grosser and his colleagues found that highly active gossips obtain high levels of informal social influence over their peers.

Theories and research on informal communication and the grapevine allow us to see and understand the side of organization or organizing that is emergent, transient, and pervasive but often seems messy, irrational, and out-of-place, as Stewart Clegg and Ad van Iterson keenly pointed out. However, it is within this untidy domain that an organization’s cultural undercurrents travel and carve the shifting terrains of our everyday organizational life. Instead of trying to eliminate, or suppress the growth of, grapevine activities from the organizational landscape, managers should first recognize and set up mechanisms to monitor these informal communication activities. Second, managers should incorporate informal communication channels when designing corporate communication strategies. Finally, managers should design messages targeting the informal channels so as to leverage the processes and functions of grapevine activities when communicating critical operational and strategic issues.

Guowei Jian

See also Organizational Culture Theory; Organizational Learning; Organizational Socialization; Sensemaking; Social Construction Theory; Social Network Theory

Further Readings


**Information Richness Theory**

The basic premise of information richness theory (frequently called media richness theory) is that communication media or channels differ in their information carrying capacity, just as pipelines of different sizes and designs have varying capacities for transporting oil. Information richness is defined as the ability of an information exchange to change participant’s understanding within a time interval. Information that fits the carrying capacity of its medium more likely will be conveyed and understood efficiently and accurately. For example, a chemist and regulatory attorney for a maker of over-the-counter medicines have to come to agreement about a new product’s content and efficacy within government regulations. To set an appointment to meet, they probably would exchange an e-mail. But to integrate the subtleties and complexities of their different perspectives and experiences, they likely will choose to meet face-to-face. They understand intuitively that a meeting face-to-face to make the appointment would not be an efficient use of time and trying to negotiate mutual understanding about the drug would be nearly impossible via e-mail. Information is constantly processed within organizations via managers and employees to interpret signals from the environment, handle disruptions, set strategy and goals, monitor performance,
coordinate people and departments, and celebrate accomplishments. Managers spend most of their work time communicating via e-mail, telephone, and personal meetings. Information richness theory explains why various communication media are used and how managers and organizations can process information more effectively. In this entry, the underlying components of information richness are defined, the implications for manager communication and coordination are described, and the large body of research evidence is reviewed.

**Fundamentals**

The theory proposes that two basic elements—media capacity and message content—need to be in alignment for effective communication to occur. The first element—capacity of an information medium or channel—is influenced by three characteristics: (1) the ability to handle multiple cues simultaneously; (2) the ability to facilitate rapid, two-way feedback; and (3) the ability to establish a personal presence or focus for the communication. In order from high to low richness, the basic media classifications are (1) face-to-face; (2) telephone; (3) personal written documents such as e-mails, letters, or memos; and (4) impersonal documents such as rules and bulletins. Face-to-face is the richest medium because it provides immediate feedback so that interpretations can be checked and provides multiple cues via emotions, body language, and tone of voice. Telephone conversations are next in the richness hierarchy. Eye contact, gaze, posture, and other physical cues are missing, but the human voice still carries a large amount of verbal and emotional information. Written or electronic messages lack visual and audio cues but allow for fairly rapid feedback and can be personalized to the recipient. E-mail, text messages, and social networking are increasingly being used for communications that were once handled over the telephone. Finally, impersonal written media, including flyers, bulletins, and standard computer reports are considered the lowest in richness. These channels are not focused on a single receiver, use limited information cues, and do not permit feedback.

The second element of the theory—message content—is gauged by the ambiguity, diverse frames of reference, and equivocality involved for participants to reach shared understanding. Communication messages or transactions that must overcome widely different frames of reference or clarify ambiguous issues to reach understanding are quite different from messages that involve routine, clear, easy-to-understand data.

**Manager communications.** Information richness theory hypothesizes that manager communication is effective when a rich medium such as face-to-face is used to process information about an ambiguous topic or that involves diverse frames of reference. A medium that is low in richness works best when the transaction involves clear data and shared perspectives. Thus, a senior manager who wants to organize the support of colleagues in favor of a new initiative for which there may be conflicts of interest is predicted to communicate with the other managers face-to-face. A manager who wants to respond to a routine written query from a customer or direct report is predicted to use e-mail for efficiency. The e-mail conveys far fewer cues, but richer cues are not needed to accurately convey a routine message. These media choices are based on the assumption that managers are somewhat rational actors attempting to communicate effectively and use their time wisely.

**Organization structure.** A substantial body of work describes organizations as information-processing systems. Organization structure and design elements reflect the information-processing needs of an organization. For example, many issues that arise from the environment are fuzzy and ill-defined so that the interpretation of external events cannot be routinized. Typically, managers with different views will converge on a similar interpretation of a key event before responding with a new strategy. Their information processing must have the capacity to reduce ambiguity. Managers discuss, argue, and ultimately agree on a reasonable interpretation that makes action sensible. Organizations in stable environments would likely require less information processing and less use of rich media to interpret the environment.

For example, the newly appointed CEO of a retail chain with 36 stores in 13 cities acted on his belief in strong financial controls and precise analysis. He overturned his predecessor’s preference to discuss matters face-to-face and to reach decisions through consensus, visiting stores to see what was selling, breakfast meetings with various people for discussion and planning, and visiting suppliers and fashion
Information Richness Theory shows to stay abreast of new trends. The new CEO requested detailed reports and analyses for every decision, relying on paperwork and computer printouts for information. He argued that managing a corporation was like flying an airplane. Watch the dials to see if the plane deviates from its course and then nudge it back with financial controls. Personal contact was limited to occasional telephone calls and monthly meetings. Within 2 years, a revolt by board members and vice presidents ousted the new CEO. They claimed that the CEO was hopelessly out of touch with the fast-moving fashion environment, and the retail chain was suffering as a result.

Within organizations, the various subgroups or functional departments must also be coordinated. In uncertain environments, the information-processing requirements to achieve coordination are high. Coordination mechanisms have been organized along a continuum from group to personal to impersonal, which reflects the richness continuum. Cross-functional teams and project and matrix forms of structure use frequent team meetings to achieve coordination and negotiate differences in perspective. Personal coordination mechanisms often rely on individuals for coordination, such as product managers and brand managers or direct contact among employees to bring diverse departments into alignment. Impersonal mechanisms include planning, scheduling, and rules, which typically apply to recurring, well-understood activities and quickly become outdated under conditions of uncertainty and rapid change.

Rich coordination mechanisms deliver faster coordination. For example, during the flight departure process, an airline such as Southwest engages in face-to-face contact among cabin cleaners, gate agents, flight attendants, pilots, caterers, baggage handlers, and mechanics to facilitate task coordination. Southwest is the most efficient airline with respect to a fast departure process partly because other airlines tend to use impersonal means of coordination.

**Importance**

Seemingly hundreds of studies across several academic fields have investigated media richness. Differences in channel richness have been investigated for human resource recruitment, advertising and marketing, online sales, information systems, distance education, deception, negotiation, national cultures, knowledge management, business-to-business relationships, and the impact of new media. Within the field of management and organization, variables studied in relation to media selection include geographic dispersion, job categories, social context, symbols, accessibility, job pressure, attitudes, socioemotional content, and task complexity. Within all these studies a few findings stand out.

There is confirming evidence that information media do fit a continuum of richness. Each major medium has a specific capacity for information processing. Moreover, the notion that managers tend to choose a communication medium to fit message content is confirmed for the major media categories of face-to-face, telephone, electronic, and impersonal.

Moreover, evidence has been reported that managers who were “media sensitive” to matching media richness and message content received significantly higher performance evaluations than managers who were “media insensitive.” Insensitive managers were rated less effective because they selected communication media almost at random, such as communicating a difficult, emotion-laden message such as telling a subordinate about a demotion through an e-mail or, vice versa, used face-to-face for most routine matters. In addition, senior executives who communicate more frequently face-to-face showed greater mutual agreement. Managers who used less rich communication channels report less agreement about business objectives and planning.

In addition, research also reveals that many factors other than message content influence a manager’s selection of a communication medium. Geographical distance, for example, may cause a manager to use telephone or e-mail because the cost to make a cross-country trip is too great to justify a face-to-face meeting. Time pressure has also been shown to influence media choice because the need for an immediate decision may override the luxury of a face-to-face meeting. These factors help explain the rise in videoconferencing, which adds richness to communications for virtual teams.

Other findings show that some managers select a medium for its symbolic meaning rather than to fit message content. A few managers reported that they had chosen the face-to-face medium for a routine communication as a way to signal caring about an employee, the desire for teamwork, to build trust and goodwill, or to convey informality.
In the opposite direction, a few managers would request more data than needed in order to send out a professional-looking written report to symbolize the legitimacy and rationality of a controversial decision. Written media were found to signal authority and legitimacy to other people.

Another finding was that people could develop greater competency within a single medium and thereby effectively communicate both routine and nonroutine messages efficiently through that channel. Channel expansion theory says that personal experience is important in shaping how a manager selects and uses a given channel. Greater experience with a specific channel, with the message topic, with the organizational norms and culture, and with coparticipants enabled the use of a single medium for a greater range of messages. However, there was no correlation of media richness with the analyzability of tasks that people performed, nor was there a clear correlation of message type with the selection of new media or social media. The new forms of media so far have not been classified as appropriate for specific types of messages. Additional research is needed in this area.

The lesson from information richness theory is that the basic idea of a fit between media richness and message content has been supported by research into manager communication and organizational coordination mechanisms. The theory has generated a significant amount of research in several disciplines. Managers and organizations that communicate according to the model tend to be higher performers.

Richard L. Daft

See also Informal Communication and the Grapevine; Matrix Structure; Social Information Processing Model

Further Readings

INNOVATION DIFFUSION

Management innovations are management entities—ideas, practices, techniques, or organizational forms—perceived as innovations (i.e., as new and improved) by a collectivity. A collectivity is a group of organizations or employees that tend to use the same entities. Theories of innovation diffusion typically advance social mechanisms, originating from within collectivities, which cause these collectivities to perceive certain management entities as innovations and adopt them, causing their spread or diffusion across collectivity members. By contra-distinction, what distinguishes innovation-diffusion from non-innovation-diffusion theories is that the latter attribute the spread of management entities to forces originating from outside collectivities, such as those exerted by government institutions or professional organizations. This entry critically reviews Everett Rogers’s influential “diffusion of innovation paradigm” throughout his five reviews published between 1962 and 2005. It then reviews bandwagon and market theories of diffusion and the diffusion literature that emerged after Rogers’s paradigm. This entry serves three purposes developed in its three parts. The first part presents Rogers’s paradigm and Eric Abrahamson’s challenges. This sets the stage for second part, which reviews management studies that have made substantial headway in overcoming
the causes of Rogers’s paradigm’s shortcomings. The third part reviews findings and prescriptions, suggested by recent management research, about how organizations and their managers might adopt more beneficial managerial innovations.

**Fundamentals**

**Rogers’s Diffusion of Innovation Paradigm**

According to Rogers, the adoption and diffusion of innovations across a collectivity is caused primarily by the gradual communication of information about innovations through channels linking members of the collectivity. When collectivity members learned through communication channels about management entities that were new and improved, they adopted them, thereby channeling information about these entities to other collectivity members that adopted them, causing still more communication and adoptions, ad seriatim.

**Adoption sequence.** Everett Rogers highlighted a multi-mechanism sequence, emanating from within individual or organizational collectivities, causing the adoption of innovations. The first mechanism accounts for the invention of new management entities whose improvements benefit adopters; the second accounts for the communication of information about such entities’ benefits across communication networks; and the third accounts for these entities’ adoption. This third adoption mechanism has a sequence of five stages. In the first, potential adopters absorb information about entities. In the second, they review this information to learn whether the entity constitutes what Rogers called an innovation—that is, an entity adopters perceive as new, improved, and thereby providing benefits. In the third, adopters’ learning persuades them whether to adopt the innovation. In the fourth, adopters persuaded of the innovation’s benefits implement it. In the fifth, if they have implemented the innovation they access whether they should continue doing so or, if they have not, whether they should further delay implementation.

**Attributes influencing rate of diffusion.** Rogers’s key policy concern was that innovations should diffuse to members of a collectivity as speedily as possible; this, so that they might benefit from these improvements as long as possible—that is, until older innovations were replaced by the next new and improved management idea, practice, technique, or organizational form. One of Rogers’s foci was the characteristics of innovations that influence the speed of their adoption and diffusion. Two types of characteristics could affect speed. One pertained to how readily the benefits of an innovation could be learned. An innovation’s inherent characteristics might make its benefits easier to perceive (what Rogers called “observability”) or to experience through trials (“triability”), as when its real benefits were relatively greater (“relative advantage”). A second class of characteristics, such as an innovation’s inherent complexity, or compatibility with other innovations, pertained to the greater speed of their implementation (complexity and compatibility). Ceteris paribus, the more the characteristic of a management innovation increased the speed with which individuals or organizations learned about the innovation’s benefits and could implement it, the faster organizations would adopt it and it would diffuse.

**Cumulative and number of adoptions over time by different adopter types.** Since approximately the beginning of the present century, we have known that not every collectivity member adopts at once but do so in suddenly accelerating numbers and sometimes, subsequently, in decelerating numbers. This makes it possible to distinguish five types of adopters that become clear upon observing a diffusion graph: innovators, early adopters, early majority, late majority, and finally laggards. Diffusion frequently produces bell-shaped curves in the number of adopters per time period. It should be noted that there are also what might be called “rejecters” as they reject innovations after adopting them. S-shaped, cumulative-adoptions curves characterized by a relative few early adopters and a steeper slope of majority adopters denote a higher diffusion speed. Innovation diffusion studies develop measures of adopters’ or innovation characteristics to test hypotheses of how they affect adoption or diffusion speed. Moreover, as communication networks channel information about innovations to adopters, researchers such as Jerry Davis in 1991 or David Strang and Nancy Tuma in 1993 developed statistical models and studies about how not only potential adopters’ characteristics but also the structure of their information channels alert them to the innovation, influencing whether and how
quickly they adopted it. The structure of the channel’s network also influences the sequence and timing of adoptions by adopters with different network profiles and the overall speed of diffusion.

**Change agents.** Change agents are defined by their role, which is to intervene in such a way as to speed up diffusion. Change agents are considered as being within collectivities because they adopt certain innovations whose diffusion they attempt to speed up. These adoptions differ from those of organizations that implement the innovations. Scholars working in Rogers’s innovation diffusion paradigm tested hypotheses linking when and how change agents adopt innovations and their effects on overall adoption or diffusion speed.

**Abrahamson’s Bandwagon and Market Theories of Diffusion**

By the time of Rogers’s 1995 review, what Rogers defined as innovation-diffusion studies had virtually slowed to a trickle. Abrahamson and Greg Fairchild noted in 1999 that it is not uncommon that when the diffusion of one type of innovation tails off, it triggers the diffusion of a replacement innovation belonging to the same type. As the number of innovation-diffusion studies in Rogers’s paradigm reached its nadir in 1992, Abrahamson published an article in 1991 that proposed two diffusion mechanisms that challenged Rogers’s innovation diffusion mechanism: a bandwagon mechanism and a market mechanism. The bandwagon mechanism specifies social and economic forces causing organizations or individuals to adopt a management entity—regardless of its newness, characteristics, or benefits—because they learn how many and which other organizations have already adopted it. Abrahamson in 1991 and 1996 advanced a second, market mechanism. It specifies how diffusion occurs as a result of the interrelation between supply-side organizations’ broadcasting discourse about entities they believed demand-side organizations will perceive as innovative and adopt. Abrahamson developed these bandwagon and market mechanisms in subsequent articles with Lori Rosenkopf and Micki Eisenman.

**Evolution**

The bell-shaped diffusion in the frequency of published studies in Rogers’s innovation diffusion paradigm peaked in 1968, slowing to a trickle by 1992; subsequently, a vibrant management literature has emerged around Abrahamson’s and others’ theorizing. This section reviews this management literature’s research on adoption and diffusion.

**Management Techniques**

Management techniques, or more exactly management techniques’ labels, are linguistic strings, such as “business process reengineering.” Discourse about management techniques communicates both such management techniques’ labels and the business prescriptions these labels denote. Business prescriptions are discourse that prescribes certain means to transform organizational inputs into organizational outputs. Organizations or their employees can implement these prescriptions.

Management diffusion researchers today question Rogers’s notion that management innovations spring up de novo and diffuse because their inherent benefits are perceived by organizations belonging to a collectivity. If anything, the definition and benefits of management techniques remain very ambiguous for organizations and their participants. Many studies indicate that it is unlikely that there exist precise definitions of management techniques and clear understandings of their inherent innovativeness. It is unlikely, therefore, that management techniques’ unambiguous, inherent innovativeness causes their diffusion. Management researchers generally assume that Rogers may have inverted the causality by assuming that management techniques’ inherent innovativeness caused their diffusion. Rather, they suggest that diffusion processes determine whether and which management techniques are perceived as innovative and adopted.

**Bandwagon Diffusion Mechanisms**

When ambiguity surrounds a management technique’s definition and innovativeness, organizations take other organizations’ adoption of that technique, rather than knowledge about its benefits, as a signal of its innovativeness, and they mimic its adoption. Abrahamson and Rosenkopf’s three computer simulations of bandwagon diffusion, published starting in 1991, illustrated how bandwagon diffusion of an innovation could occur because of social conformity or economic risk aversion pressure. Bandwagon resulted from a positive feedback loop: In the first
Innovation Diffusion

part of the loop, more adoptions caused greater pressures to adopt, whereas in the loop’s second part, these greater pressures caused more adoptions. Innovations diffused only as long as the loop cycled, resulting, when it stopped, in different proportions of the collectivities having adopted. This research overcame the single-minded focus on the speed of diffusion. It considered the extent of diffusion as well, as did Abrahamson’s market diffusion mechanism.

It is very important to note here a point of frequent confusion. Both bandwagon mechanisms and market diffusion mechanism are not defined by the fact that they diffuse nonbeneficial innovations. They can cause the diffusion of beneficial innovations as well. They are defined by how these mechanisms function. Both bandwagon and market models, however, because they are not based on the assumption that it is innovations’ real benefits that cause innovations to diffuse, can explain the diffusion of innovations that had little or no utility for organizations or that caused them active harm.

Management Fashion–Market Diffusion Mechanisms

Researchers using the market diffusion model have paid close attention to both supply-side and demand-side organizations in the market for management innovations. Many researchers, such as Jos Benders, Harry Scarbrough, Krzysztof Klinecwich, Andrew Sturdy, Timothy Clark and Brad Jackson, Margaret Brindle, and Peter Stearns confirmed that consulting firms, books publishing houses, magazines and their publishers, professional associations, and business schools populate the supply-side of the market for management innovations. They promote, through their discourse, techniques that they hope demand-side organizations and their stakeholders will perceive as rational or progressive, will adopt, and will diffuse. Multiple supply-side organizations compete to achieve this end.

Abrahamson’s 1996 theory also notes that entities’ demand-side potential adopters perceived as new and improved invariably become perceived as old, unsuccessful, or passé, resulting in the diffusion of their rejection. Demand-side organizations include for-profit, nonprofit, governmental, and even military and religious organizations. Total quality management (TQM), for instance, diffused across all these organizations. Rational management techniques are those that stakeholders believe provide efficient means to important ends. Progressive techniques are those that stakeholders believe are new and improved relative to past rational techniques. The theory of management fashion assumes that demand-side organizations have incipient interests in management entities that are rational and progressive in ways that are not fully clear to them.

As David Strang showed in 2006, only certain supply-side organizations win the competition to launch their management innovations. Winners succeed, either by design or by chance, because the management techniques they promote fit demand-side organizational and stakeholder incipient preferences. Of course, the passage of time undermines demand-side perceptions that management innovations are new and improved. A few of these outdated innovations remain institutionalized, but many are rejected in droves. At this point, supply-side organizations compete again to launch the next management technique that the demand side will perceive as new and improved.

Market Driven Diffusion

Research reveals the existence of three types of market-driven adoption processes, which we examine in turn.

Ceremonial adoption. Certain organizations do not implement the management innovations supply-side organizations supply; they only use the labels denoting these management innovations. They do so to signal to their stakeholders that their organizations are well managed by virtue of having implemented the new and improved management techniques these labels denote; this, even if they have not implemented them. For example, in 1998, Mark Zbaracki’s multiple case studies of organizations indicated that when the TQM label and its associated prescriptions reached these organizations, they triggered very limited TQM implementation. What little, halfhearted implementation occurred generally failed. Organizations used the TQM label, however, to communicate to stakeholders stories of successful TQM implementation.

Reinvention. Some researchers note that organizations do not always make only ceremonial use of labels denoting management techniques. Rather,
they implement vastly differing variants of the prescriptions these labels denote. Consider, for example prescriptions for designing organizations labeled as multidivisional structures (M-form). M-form prescriptions are highly ambiguous. Not surprisingly, a number of researchers found evidence that there existed many variants of M-form organizations, and in 1962, Alfred Chandler, the pioneer of M-form research, noted that many mixed and bastardized versions of the M-form were adopted. What causes these mutations in the adoption of management prescriptions denoted by the same label? Rogers attributes mutation to “reinvention”—a tendency of organizations to reinvent management innovations to serve their idiosyncratic needs. Barbara Czarniawska and Guje Sevon were first to take the next step in 1996 and notice that reinvented innovations were in turn reinvented repeatedly, or translated, as they diffuse across organizations, resulting in any number of technical management mutations. It may not even make sense, therefore, to talk about the diffusion of a single management innovation but rather of how diffusion across organizations is defined by the spread of many mutating management prescriptions whose commonality is that they are denoted by the same label.

Accumulation. Researchers have detected another mechanism causing management innovations to mutate. As noted earlier, management techniques perceived as new and improved become perceived as outdated with the passage of time, causing their widespread rejection. The collapse of outdated management techniques triggered competition among supply-side organizations resulting in the emergence of replacement management innovations, ad seriatim. Abrahamson and Eisenman in 2008 showed that series of transitory management innovations had a gradual, yet major effect on management discourse and praxis.

Importance

Making the Adoption Decision

This final section focuses on what we can learn from management studies of the adoption and diffusion of management technique. Several researchers contend that there inheres in Rogers’s paradigm a pro-innovation bias—an assumption that only beneficial management innovations diffuse and, therefore, that management innovations that have diffused must be beneficial. The market and bandwagon mechanisms of innovation diffusion are neutral with respect to the benefits of diffusion for organizations and their managers. Out of inability or self-interest, fashion setters, for instance, may participate in the diffusion of ineffectual management innovations. Likewise, bandwagon processes will cause an entity to diffuse, because others have adopted it, regardless of whether it is or is not new or improved. For these reasons, managers run the risk of adopting ineffectual innovations. When might this be more likely to occur? Two types of adoption—bandwagon and ceremonial adoption—have a higher likelihood of diffusing management techniques that might provide little utility to adopters or that might actively harm them. Two other adoption mechanisms—reinventive adoption and accumulated adoption—have a higher likelihood of benefiting organizations.

Bandwagon and Ceremonial Adoption

Pamela Tolbert and Lynn Zucker’s often replicated 1983 study indicates that early organizational adopters of management innovation have needs that tend to make these innovations useful for these adopters. Innovators and early adopters cause bandwagon pressures prompting large numbers of early-majority nonadopters, then late-majority nonadopters and finally laggards to adopt. They would succumb to these bandwagon pressures even though what they adopt would not benefit them. Such findings reveal, in particular, the dangers managers face when they benchmark and imitate other organizations’ techniques with little knowledge of these techniques’ utility. Abrahamson’s 1991 simulation, with Lori Rosenkopf, of bandwagon diffusion also suggests that a few rejections of beneficial innovations could result in their widespread bandwagon rejection. So managers might guard against the risk of abandoning innovations that benefit them, when these innovations are being rejected by many organizations.

Ceremonial adoption processes also seem to have a greater potential to diffuse management innovations of little utility to organizations. In 2000, Barry Staw and Lisa Epstein published a study, replicated by Ping Wang in 2010, providing rigorous evidence of the ceremonial adoptions of management techniques. They found that CEOs’ use of ceremonial
Innovation Speed generally represents how quickly an idea moves from conception to a product in the marketplace, measuring firms’ capabilities to move quickly through the innovation process. Different terms such as time-to-market, cycle time, new product development speed, and speed-to-market have been also used to portray the same concept. Innovation speed is a key component of time-oriented strategy and a pivotal way to achieve time advantage, either first-mover or fast-follower advantage. Time orientation has become the popular choice for most companies to achieve competitive advantage since the late 1980s. This change of managerial focus represents a shift from a more traditional cost orientation, such as management experience curve strategies in the 1960s, portfolio strategies and the strategic use of debt in the late 1960s and early 1970s, and de-averaging of costs in

See also Institutional Theory; Interorganizational Networks; Neo-Institutional Theory; Open Innovation; Social Network Theory; Technological Discontinuities; Technology S-Curve; Transfer of Technology

Further Readings


Innovation Speed

the mid-1970s. Instead of emphasizing the achievement of the most output at the lowest cost, time orientation seeks to achieve the most output in the shortest time frame, more suited for the current fast-changing business environment. Adding it to Michael Porter's three generic strategies of cost leadership, differentiation, and focus, time advantage is being viewed as a new generic competitive strategy. In the following, antecedents and benefits of innovation speed are first discussed and then its trade-offs are addressed.

Fundamentals

Antecedents of Innovation Speed

There are many antecedents of innovation speed, which could be classified into strategy, project, process, and team characteristics. Strategy characteristics address the managerial thought and context of innovation in a company at the macro level, consisting of speed emphasis, innovative culture, top management support, strategy synergy, and resource availability. They reflect how top management fosters a favorable climate to facilitate the initiation of new ideas and product development with a specific time-based objective and a clear product concept. Instead of emphasizing cost or quality, a strategic focus on time reflects an innovation strategy that aims to shorten the duration of product development.

Project characteristics refer to the attribute of the innovation projects, resulting from the firm's innovation strategy. Project characteristics that facilitate innovation speed are those that limit uncertainty and complexity of innovation projects. For instance, to shorten development cycle time, firms tend to pursue incremental products and simple projects to reduce design modifications and developmental errors associated with the development of radical and complex products. Project characteristics include product vision, product and technology newness, project complexity, and project size. Process characteristics represent the attribute of the innovation process and its execution that affects speed. For instance, although a formal innovation process is necessary to develop new products, the process should be flexible to allow overlap or parallel development of activities. Also, innovation teams would need to learn continuously by taking a probe-and-learn process (i.e., iterating and testing product concepts) to speed up the innovation process, particularly in developing a totally new product. Process-related factors include the extent to which (a) a formal innovation process and concurrent process are adopted; (b) a probe-and-learn approach are employed; (c) advanced methods and tools are used, such as design-related tools and computer-based tools; and (d) innovation processes are proficiently executed.

Two aspects of team characteristics, staff and structure, influence the innovation process. Structure characteristics refer to the integration within and between teams. To accelerate innovation, a sequential process needs to shift to a parallel and integrated process. This new process accordingly requires a new organizational form; that is, team structure should shift from functional teams to cross-functional teams. It requires not only the involvement of different specialists from internal functional departments but also the involvement of external partners to coordinate and integrate with each other toward a common goal. Staff characteristics refer to characteristics such as team leaders' power and expertise and team members' experience and dedication. Team leaders and members are the people who transform valuable ideas, concepts, and specifications into new products; thus, they play a central role in facilitating or impeding process performance, including speed. Only qualified staffs can make a good strategy happen; that is, team members with rich experience, expertise, and skills can effectively execute the time-based strategy and accelerate innovation process.

Benefits of Innovation Speed

Innovation speed is essential for the success, survival, and renewal of firms in turbulent and uncertain environments. By developing products quickly, companies can achieve several important benefits. First, rapid innovation can increase product profitability, margins, and market share. Firms are able to translate time into profits by satisfying their “impatient” customers, who are willing to pay a premium if they can get goods and services very quickly. Second, companies with fast innovation have a greater chance to establish industry standards and may lock up distribution channels. Third, a firm with the capability of developing products rapidly can quickly respond to market demands, improving the timeliness of its product entry and customer satisfaction.
Institutional Theory

“Institutional Theory”

Institutional theory is an approach to understanding organizations and management practices as the product of social rather than economic pressures. It has become a popular perspective within management theory because of its ability to explain organizational behaviors that defy economic rationality. It has been used, for example, to explain why some managerial innovations become adopted by organizations or diffuse across organizations in spite of their inability to improve organizational efficiency or effectiveness. The explanation, according to institutional theory, is based on the key idea that the adoption and retention of many organizational practices are often more dependent on social pressures for conformity and legitimacy than on technical pressures for economic performance. In this entry, the core concepts of institutional theory are summarized, its history and evolution are reviewed, and finally, select managerial applications of the theory are discussed.

Jiyao Chen

See also Business Process Reengineering; Empowerment; First-Mover Advantages and Disadvantages; Kaizen and Continuous Improvement; Organic and Mechanistic Forms; Product Champions; Stages of Innovation

Further Readings


“Trade-Offs” of Innovation Speed

Some researchers and practitioners argue that there are potential trade-offs between innovation speed and other innovation performance indicators, such as speed-quality and speed-cost trade-offs. For example, a strict deadline might make innovation teams slip key processes, trim performance specifications, and/or reduce technological content, which typically undermines product quality. Fast innovation may make managers focus on schedules at the expense of more resources and product performance. Overemphasizing speed may make the innovation process too rigid and unable to respond to competitive and customer-driven changes. Also, under high time pressure, innovation teams may be forced to consider a narrow range of alternatives and have little time to explore ways to improve product specifications.

However, implementing a time-based strategy is not as simple as adding more resources in the innovation process or slipping the key steps or rushing; it is not speeding for speed. Just as Brian Dumaine commented in a Fortune magazine article, “The worst way to speed up a company is by trying to make it do things just as it does, only faster. The workers will simply burn out.” A time-based competitor is not necessarily better able to finish a single task faster than its competitors are. Time-based competitors have to do something differently, keeping in mind speed as means to success. To implement time-based strategy, a company and its innovation teams should change managerial philosophy to focus on time and make this criterion a priority and, in turn, change the product strategy, innovation process, and organizational structure.

Jiyao Chen

See also Business Process Reengineering; Empowerment; First-Mover Advantages and Disadvantages; Kaizen and Continuous Improvement; Organic and Mechanistic Forms; Product Champions; Stages of Innovation

Fundamentals

Six key concepts form the basis of institutional theory: the infusion of value, diffusion, rational myths, loose coupling, legitimacy, and isomorphism. Each of these is elaborated below.
Institutional Theory

Infusion of Value

Institutional theory is premised on the observation that abstract social structures—such as family, organization, church—tend to acquire meaning and significance that extends beyond their original purpose. Institutionalization is the process by which, over time, routine tasks, organizational structures, or functional positions acquire surplus meaning or value beyond their intended function. Phillip Selznick first articulated this core idea. Selznick was an American sociologist who, in his 1949 study of the Tennessee Valley Authority (a large federal government organization designed to promote conservation as part of the Roosevelt administration’s New Deal) observed that the organization’s survival came at the expense of its original purpose. Selznick’s study offered two key insights that form the foundation of institutional theory. First, he concluded that organizations become infused with significance (meaning and value) that extends beyond their bare functional utility. Second, he observed that as a result of this infusion of meaning and value, there are often unintended consequences to purposive action. Selznick’s work, thus, separated organizational activity into two distinct realms—the technical and rational realm of purposive action and the symbolic and institutional realm of meaning and value.

Diffusion

A related idea is the understanding that new practices are often adopted, not because of their technical outcomes but because they resonate with social and community values. This observation emerged in 1962 through the publication of Everett Rogers’s book *The Diffusion of Innovations*. Rogers was a professor of rural sociology interested in understanding why some innovations successfully spread and others did not. He observed that adoption of an innovation often depends less on the objective or technical attributes of the innovation and more on the subjective interpretations of the innovation by the adopter. So for example, an indigenous community may refuse to adopt modern health practices (e.g., boiling drinking water) if the reasons for adoption are not communicated in a way that is consistent with the traditional beliefs of that community. Rogers’s identification of different motives for adoption (i.e., technical versus social) and patterns of diffusion of new innovations has been influential in institutional studies of organizations. Researchers have extensively studied the movements of managerial innovations across groups of organizations with the key insight that the adoption of practices often depends on subjective perceptions of conformity to shared values in the broader social or institutional environment within which adoptive organizations exist.

Rational Myths

The foundation of modern institutional theory in management rests on the notion of rational myths published in a seminal paper in 1977 by John Meyer and Brian Rowan titled “Institutional Organizations: Formal Structured as Myth and Ceremony.” Meyer and Rowan offered an explanation for prior observations that much organizational activity is unrelated to economic productivity. Organizations, they argue, exist in social contexts in which the rules of appropriate behavior are defined not by economic rationality but rather by *prevailing myths about what constitutes economic rationality*—in other words, taken-for-granted assumptions of what a successful organization should be. Organizations, they observe, can successfully survive by conforming to, or becoming isomorphic with, their institutional environment. The assumption that successful organizations need to have a formal personnel function is one example of a rationalized myth.

Loose Coupling

Related to the idea of rational myths is the observation, by Meyer and Rowan, that organizations often only ceremonially adopt some practices. That is, organizations often must separate and buffer their core productive functions (their technical activities) from functions adopted as a result of institutional pressures. For example, organizations often achieve loose coupling by separating the formal adoption of a practice from its implementation. Thus, during periods of economic contraction, some firms will announce large-scale employee layoffs but fail to implement them. The announcement occurs to conform to social pressures—in keeping with the rational myth that successful corporations are “lean.” The failure to implement occurs because the firm recognizes that it would be unable to maintain its current productivity if it fully conformed to institutional pressures.
Legitimacy

Organizations adhere to rational myths and adopt isomorphic practices out of a desire to appear to be a legitimate organization. That is, a central assumption of institutional theory is the idea that organizations improve their odds of survival by conforming to commonly held expectations of what a successful organization should appear to be. Organizations that appear to be legitimate are more likely to access resources than organizations that do not appear to be legitimate. An organization with a formal business plan, thus, is more likely to obtain bank financing than an organization without one. Similarly, an organization with a formal equal opportunity program may be more likely to obtain federal government contracts than an organization without one. Legitimacy is obtained by adhering to the explicit rules and implicit norms of the social environment within which a firm exists.

Isomorphism

Conformity to an institutional environment is, largely, signaled by adopting structures, practices, and behaviors similar to other leading organizations. Organizations who share a common social field, therefore, will be subject to similar institutional pressures and, over time, will become more similar to, or isomorphic, with each other. This core idea was first offered by Paul J. DiMaggio and Walter W. Powell in a key paper published in 1983 and titled “The Iron Cage Revisited: Institutional Isomorphism and Collective Rationality in Institutionalized Fields.” They argue that the most significant sources of social pressure to conform arise from the professions and the state. DiMaggio and Powell categorized the types of isomorphism exhibited by organizations into three types. Coercive isomorphism is largely political in nature and arises from organizations’ need to appear legitimate to other, more powerful actors, such as the state. These rules of conformity are often, but not necessarily, explicitly articulated in the form of rules or laws. Normative isomorphism is the need to adopt practices assumed to be right or proper by morally significant actors, such as the professions. These rules of conformity are often, but not necessarily, implicit. Finally, mimetic isomorphism refers to the tendency of some organizations to copy other organizations that are perceived to be successful or legitimate under conditions of ambiguity—that is, when the criteria for or path to success is not apparent.

These six concepts form the foundation of institutional theory in management. Collectively, they provide a model for organizational behavior that stands in sharp contrast to economic or rational choice models of firm behavior. That is, through these concepts, institutional theory suggests that organizations exist simultaneously in two worlds—a technical world where they must attend to material resources such as capital and labor, and a social world where they must attend to symbolic resources such as legitimacy and status.

Evolution

Management scholars sometimes differentiate between “old” and “new” institutionalism. Old institutionalism refers to the detailed qualitative case studies of organizations by organizational sociologists in the 1950s and 1960s. Selznick’s classic study of the Tennessee Valley Authority in 1949 demarcates the beginnings of “old” institutionalism. It was followed by publication of The Organizational Weapon by Selznick in 1952, a study of a Leninist organization, which focused attention on the process by which organizations become “institutionalized” or take on a character and values distinct from the organizations functional or technical objectives.

New institutionalism is demarcated by the publication in 1977 of Meyer and Rowan’s classic paper “Institutionalized Organizations: Formal Structure As Myth and Ceremony,” followed closely by DiMaggio and Powell’s 1983 paper “The Iron Cage Revisited: Institutional Isomorphism and Collective Rationality in Organizational Fields.” The term “new institutionalism” captures a conceptual shift toward a view of institutions as collective cognitions or shared assumptions that, over time, acquire a degree of social concreteness. That is, they become taken-for-granted and, as a result, constrain organizational behavior. There is also a clear methodological distinction between old and new institutionalism. While old institutionalism focused attention on processes that occur inside individual organizations, new institutionalism focused on processes that occur across clusters of organizations that interact frequently with each other—a level of analysis commonly referred to as the organizational field.
These two foundational articles initiated an intensive examination of the processes by which institutionalized practices diffuse across organizational fields and, concomitantly, the ways in which organizations become more similar to each other. These “diffusion” studies initially focused on the process by which organizations adopt similar structures—that is, became isomorphic. An early study by Pamela S. Tolbert and Lynne G. Zucker in 1983 established a two-stage model of mimetic adoption in which some organizations initially adopt a practice for technical reasons—that is, the practice improved firm performance. Later adopters, however, do so for reasons of conformity: Adopting the practice did not improve performance but made the adoptive organization look legitimate.

Other studies focused on the mechanisms of diffusion by analyzing the factors that inhibit or promote the adoption of practices across an organizational field. Key agents that have been identified as facilitating or preventing diffusion include the professions, government, management consultants, and interlocking networks of corporate executives. Related research identified the following attributes of organizations that were subject to diffusion: functional positions in organizations, management practices such as total quality management, and strategic decisions such as mergers and acquisitions, downsizing, and long-term incentive plans.

By the early 1990s, theorists began to raise concerns about the core premise of “new” institutionalism. DiMaggio and Powell had framed their paper around the question, Why are organizations so similar? Their answer was that organizations adopt similar practices and structures in an effort to conform to their institutional environment. Critics, however, noted that not all organizations within a common organizational field are the same. Some organizations seem to be able to resist institutional pressures. They also pointed out that highly institutionalized organizational forms or practices sometimes change. Institutional theory, they argued, unfairly depicts organizations as “cultural dopes,” overly influenced by collective beliefs, and this, they charged, was inaccurate.

In an early publication one of the founders of new institutionalism, Paul DiMaggio, had accounted for the possibility that institutions might change. DiMaggio identified some actors called “institutional entrepreneurs” with a unique capability of discerning and resisting the powerful influence of collective social beliefs. In a related argument, Christine Oliver observed that some organizations actively engage with and strategically resist institutional pressures to conform.

The idea that actors have the agency to resist institutional pressures and change them generated a new stream of research focusing on processes of institutional change. Early studies had suggested that institutional change could only occur exogenously—that is, by some calamitous event that occurred outside an organizational field. Later research, however, challenged this by demonstrating that marginal actors on the periphery of an organizational field were less subject to conforming pressures and were more likely to initiate change. Subsequent research extended this with the observation that some actors occupy bridging positions between different organizational fields and can initiate change by moving institutionalized ideas across organizational fields.

Scandinavian researchers challenged the notion that institutional ideas move in an intact form across organizations. They observe that institutionalized practices are often translated, or abstracted, in order to move from one place to another and then adapted to local contexts once adopted by individual organizations. Another stream of research focuses attention on the use of persuasive language, rhetoric, or discourse to facilitate change by making new templates appear to be legitimate.

A logical extension of this research has focused attention on “institutional work,” or the processes by which actors engage in creating, changing, and maintaining institutions. The core idea of institutional work was introduced by Tom Lawrence and Roy Suddaby in 2006 in a paper titled “Institutions and Institutional Work.” The core idea of institutional work is based on the assumption that certain actors in an organizational field acquire a degree of cognitive awareness of their institutional environments as well as a degree of skill or competence in managing or manipulating that environment. The existence of such awareness and skill is premised on the understanding that actors (both individuals and composite actors) are not complete cognitive prisoners of their institutional environment.

In sum, institutional research from the mid-1990s up to and including the present adopted a much stronger focus on agency. Organizations were no longer presented as cultural dopes but rather were seen as actively engaged in the process of adapting
to, and in turn influencing, the institutional milieu in which they were embedded. Institutional theory, as a result, has become less associated with notions of blind conformity and ceremonial adoption and more interested in understanding how organizations actively influence their institutional environment.

**Importance**

As a theory of organizations, institutional theory has demonstrated remarkable resilience. It has transformed from a framework designed to explain organizational similarity and the absence of agency to one designed to explain organizational change and profound agency. Still, even with such a confounding transformation to its core ideology, institutional theory has managed to retain a strong thread of internal coherence. The constant within institutional theory is the assumption that organizational structures and processes acquire meaning and significance that extend beyond their technical purpose. The notion that organizations function simultaneously in technical and institutional environments provides constancy and coherence to this conceptual perspective on organizations.

Institutional theory continues to have a powerful impact on organization theory. It is the single most popular subject for recent submissions to the Organization and Management Theory division of the Academy of Management and has been described (e.g., by Royston Greenwood and colleagues) as the dominant approach to understanding organizations. Yet its impact has been relatively confined within the academy to organization theory and has failed to make a significant impact in strategic management research or in theories of organizational behavior that focus on the individual level of analysis.

Similarly, institutional theory has had relatively little influence on managers and practitioners outside academia. In part, this may be explained by its core assumptions that until recently appeared to diminish the role of management in determining organizational survival. The assumption that managers have no significant role within institutional theory, however, is inaccurate. The managerial implications of institutional theory are not absent from the theory but rather are simply not yet fully articulated. Clearly, the turn toward agency in institutional theory and the ideas around institutional work should focus attention on the idea that actors can actively manage their institutional environments. Increasingly, managers are engaging in this type of institutional work. So, for example, in the early 21st century, business managers are increasingly engaged in issues of corporate social responsibility, which can be viewed as a way of managing directly engaging with the institutional environment. Similarly, the increasing involvement of corporations in political activity, such as funding political activities and lobbying government and regulators, is another core way in which managers attempt to control their institutional environment. Research has shown, thus, that some organizations are able to actively resist institutional pressures by, for example, shaping the content and diffusion of legal regulations. An emerging stream of studies has also identified ways in which business organizations are increasingly appropriating and internalizing elements of the public sphere—such as corporate universities, corporate armies, and corporate museums—which may also be seen as a means by which business managers are attempting to engage with an organization’s institutional environment. Future research will offer a clearer elaboration of these phenomena and the role of management in institutional practices.

Roy Suddaby

**See also** Innovation Diffusion; Institutional Theory of Multinational Corporations; Interorganizational Networks; Neo-Institutional Theory; Process Theories of Change; Resource Dependence Theory; Social Movements; Structuration Theory

**Further Readings**


Institutional Theory of Multinational Corporations

Scholars are applying the ideas of institutional theory to the study of multinational corporations (MNCs). The boundaries and the content of this area are not well defined, however, as a result of two factors. First, the institutional perspective itself is rather broad and comes in different variations with different foci, sets of constructs, explanatory mechanisms, and levels of analysis. Second, its application to the MNC has been somewhat limited. Thus, it cannot be claimed that a well-specified institutional theory of MNCs exists. However, a growing body of work, primarily in the international management area, has identified important building blocks of such a theory. The institutional perspective advances the central proposition that organizations are socially embedded in their institutional environments. As a result, their actions are not always motivated by economic rationality but are also affected by social considerations of appropriateness. Accordingly, institutional research studies the institutional environments of organizations and the relationships between organizations and their environments. Depending on the particular research focus and the primary discipline on which it draws, the institutional perspective branches out into several areas: institutional economics, comparative institutionalism, and organizational institutionalism, all of which have been applied to the study of MNCs. The next section of this entry provides a brief description of the broad institutional perspective and its three strands. This is followed by a summary of the institutional research in MNCs, including work on the institutional environment, the organization and its relationship with the environment, and on intraorganizational institutional processes.

Fundamentals

At the heart of institutional theory is the concept of institutions, established social structures widely accepted and approved which have achieved a taken-for-grantedness status as a result of the institutionalization process. Institutions consist of explicit rules and regulations, shared social cognitions, and social norms, all of which constrain and shape organizations. This is the deterministic, or “structure” proposition in the theory. While emphasizing the power of the environment, institutional theorists also recognize that organizations may exert some level of “agency”—that is, discretion in their response to institutional pressures. Organizations may even have an impact on their environments by engaging in “institutional entrepreneurship—in other words, facilitating institutional change and developing or promoting new institutional arrangements.

MNCs are organizations that have entities in two or more foreign countries, are actively involved in the management of these foreign operations, and regard those operations as integral parts of the company both strategically and organizationally. The cross-border nature of MNCs brings to the forefront the issue of managing their exposure to multiple and diverse countries and of coordinating their activities across different economic, political, and cultural systems.

With its focus on social embeddedness, the institutional perspective is a natural contender for the study of MNCs. It not only fits theoretically with the nature of these firms, but it also captures their essence and allows for the examination of a wide range of critical issues in MNC management, including internationalization strategies, internal organization, and competitive performance. Furthermore, because of its distinct theoretical features (e.g., institutional multiplicity and complexity), the MNC as an organization challenges institutional theory, highlights certain limitations in its traditional form, and motivates a number of modifications, extensions, and novel theoretical insights.
Institutional economics aims at explaining how the institutional order in a society impacts economic activity. The focus is mostly on the formal aspect of institutions, often defined as the rules of the game in a society (e.g., rules of competition, corruption, government involvement). The explanatory mechanisms are of economic nature. It is argued that societal institutions affect the strategic choices companies make to operate effectively in that society, because the quality of the institutions impacts the costs and risks of doing business. For example, institutional characteristics such as poor regulatory frameworks, weak rule of law, high levels of corruption, arbitrary government intervention, and instability and uncertainty in the regulatory order would negatively affect investment decisions, growth strategies, innovation activities, and performance, among many other indicators of firm outcomes.

Comparative institutionalism also focuses on societal-level institutions. In addition to applying the ideas of institutional economics in a comparative, cross-country fashion, this area also emphasizes a systems view of institutional environments and employs a more diverse disciplinary approach, including political economy and sociology, in addition to economics. It conceptualizes environments as an interdependent set of arrangements in the political, economic, and sociological strata of the society. Over time, the various institutions in a society coevolve and emerge into a relatively tightly interconnected system, captured by terms such as national business systems, national innovation systems, national governance systems, or varieties of capitalism. The primary research interest here is on the cross-country comparison of national institutional systems and the impact of such differences on firms.

Organizational institutionalism focuses primarily on the level of the organization and takes a sociological approach. Institutions are defined as established social structures (e.g., organizational practices and structures) that over time have been “infused with value”; that is, they have acquired a symbolic meaning beyond their technical functionality. Here, institutions are not limited to the formal rules but also include a cognitive and a normative element (i.e., regulatory, cognitive, and normative pillars). Furthermore, organizations face pressures to align themselves with the institutional order because in this way they can achieve legitimacy and ensure their survival and success. The environment exerts its pressures through coercive, mimetic, and normative mechanisms. In response, organizations adopt institutionalized practices and structures; adoption often reflects a desire to appear appropriate to external constituents rather than a rational decision based on cost-efficiency considerations. Organizations’ compliance to such pressures leads to similarity, or isomorphism, between organizations and also ensures predictability and stability in social life. While critical for achieving organizational legitimacy, isomorphism is often suboptimal for the economic performance of organizations.

Organizational institutionalism has two distinct strands—old and new institutionalism. “Old” focuses on explaining the emergence of institutions (institutions as outcome) and discusses the role of power and politics, social interaction, value infusion, agency, and processes of institutionalization. “New” treats institutions as independent variables and examines their effects on organizations through the concepts of institutional environments and pressures, isomorphism, and legitimacy. In old institutionalism, institutions are defined at the level of the organization, whereas in new institutionalism, they are defined at the level of organizational fields. Organizational fields consist of a set of organizations typically related through business interactions that through the process of structuration, slowly come to a set of shared institutional arrangements. Recent research on institutional change, institutional entrepreneurship, and institutional work represents efforts at closing the gap between the two strands.

**Importance**

Understanding the nature of MNCs’ institutional environments, the interdependence between MNCs and home and host countries, and the strategic response, choice, or adjustment of MNCs to their institutional context is central to MNC research. All three institutional perspectives have informed this work.

Based on institutional economics, scholars have examined the effects of the quality of institutions on various MNC business strategies. Quality of institutions has been measured by a variety of country-level indicators, including economic (e.g., income), political (e.g., democracy), administrative (e.g., ease of doing business), quality of education, banking
system, corruption, and others. In addition, scholars have examined the overall degree of institutionalization and development of institutions in a given country or region. Notable is the work on institutional voids, which suggests that many countries, emerging and developing in particular, have institutions that are underdeveloped or inconsistent with each other. Similarly, transition economies are characterized by “institutional imperfections.” In the absence of well-developed formal institutions, informal institutions become critical in controlling and coordinating social behavior. Institutional quality impacts a range of MNC strategies. The theoretical reason is that institutions, as “rules of the game,” reduce uncertainty by establishing a stable structure for interactions. When the quality of institutions is poor, the cost of exchange and production goes up and organizations react by modifying their strategies. In particular, the institutional quality in MNCs’ host countries affects their location decisions, entry mode (e.g., wholly owned subsidiaries and acquisitions in developed countries versus joint ventures in institutionally weak countries), product market strategies, performance, and others. Emphasizing the importance of the institutional conditions, scholars have even proposed an institution-based view of strategy.

Based on comparative institutionalism, scholars have examined the national origin of business systems and their institutional features and have provided in-depth comparisons between societies with regard to their business, innovation, governance, and education systems. Most of the work has focused on the comparison between the liberal market model practiced in countries such as the United States and the United Kingdom and on the coordinated market model in Germany. There is also a growing interest in the so-called state model of capitalism followed by Japan and lately China. A robust finding here is that despite the global nature of world markets, country of origin is still a strong factor in shaping organizations. MNCs are imprinted by their home national systems with regard to ownership patterns, property rights, trust in formal institutions, dominant firm type, growth patterns, innovation strategies, and control systems, and these effects are stronger than the host country effects. Furthermore, the differences between national business systems reduce MNCs’ ability to transfer practices within the organization. Differences in labor markets, educational systems, and manufacturing processes, reduce MNCs’ ability to implement identical work systems among subsidiaries in different host countries.

Based on organizational institutionalism, in particular the conceptualization of institutions as consisting of regulatory, cognitive, and normative pillars, MNC scholars have developed the constructs of country institutional profile (CIP) and institutional distance (ID), measuring respectively the institutional environment in a given country and the difference between the institutional environments between countries. Recognizing that all three pillars are issue specific, CIPs are constructed for specific issues such as quality management, entrepreneurship, and corporate social responsibility. CIP and ID have been found to affect various organizational outcomes, including entrepreneurial activity, entry mode decisions, transfer of organizational practices within MNCs, and difficulty of establishing and maintaining legitimacy. Importantly, the different dimensions of institutional profile and distance have been found to have differential effects on business outcomes. This work has highlighted serious challenges faced by MNCs. One such challenge is the so-called liability of foreignness (LOF)—the additional costs incurred by MNCs compared to domestic firms because of unfamiliarity and relational and discriminatory hazards they face in a foreign country. LOF is affected by the institutional distance between home and host countries and changes over time. Possible ways to deal with LOF include ownership strategies when going abroad and isomorphism strategies in host countries. Recent research suggests a possible positive effect of foreignness. Somewhat related is the work on MNCs’ political activities. The idea is that that MNCs engage in such activities in host countries to influence the relative dependency and bargaining power between the two sides and the host country’s perception of the organization’s legitimacy. Emerging research also looks at how MNCs can act as institutional entrepreneurs bringing about institutional change in their host countries.

More generally, recognizing that MNCs are complex organizations, both externally (exposed to multiple and possibly conflicting institutional environments), and internally (having to coordinate diverse sets of units across borders), scholars have advanced new and expanded institutional models for such organizations. MNC complexity challenges the foundational assumption of institutional
Integrative Social Contracts Theory

The central management insight of integrative social contracts theory (ISCT) is that confronting ethical problems in business demands the integration of universally applicable norms with specific standards that are voluntarily accepted in economic communities. The theory offers a framework for understanding when an economic act, policy, or institution is bad, good, fair, unfair, permissible, or impermissible. ISCT is a form of social contract theory. In other words, it is a theory that establishes
Integrative Social Contracts Theory

a hypothetical social contract that spells out obligations and rights for members of an economic system. The members of the economic institutions of society are thus viewed as hypothetical “contractors,” and the contracts they negotiate set the terms for ethics in business. Historically, the idea of a social contract was employed by traditional political theorists such as Thomas Hobbes, John Locke, and Jean-Jacques Rousseau, to offer a framework for understanding political obligations in society. ISCT, in turn, applies the idea of the social contract to economic activity, to create a framework for understanding business obligations. The theory is called integrative because it integrates two principal kinds of social contracts: the micro and the macro. These two principal elements of the theory, the macrosocial contract and the microsocial contract, are presented below.

Fundamentals

ISCT is primarily developed and advocated in the joint writings of Thomas Donaldson and Thomas Dunfee. It integrates the traditional and abstract idea of the philosophical social contract (macrosocial) with the specificity of moral understandings among participants in economic organizations (microsocial). In this manner, ISCT integrates empirical and normative research in business ethics.

Macrosocial Contracts

The macrosocial contract is a hypothetical agreement about a broad framework for understanding all economic arrangements. Hypothetical contractors know some things; at least they know their basic preferences and values and thus confront only a partial veil of ignorance—namely one that hides information about their personal economic endowments and roles in society. Contractors recognize the constraints of “bounded moral rationality,” which means that they realize that they lack a foolproof moral calculus for sorting out economic conundrums. Second, they recognize the need for some community-based morality that will aid their group endeavors, including economic ones. They understand that such a community-based morality can help optimize their own economic and social preferences.

As a result of making these assumptions, the contractors rationally design a global—that is, macrosocial—contract with the following terms: (1) Local communities may specify ethical norms for their members through microsocial contracts (called “moral free space”); (2) norm-generating microsocial contracts must be grounded in informed consent buttressed by a right of community members to exit and to exercise voice within their communities; (3) to be obligatory (legitimate), a microsocial contract must be compatible with hypernorms; and (4) in case of conflicts among norms-satisfying principles 1 through 3, priority must be established through the application of rules consistent with the spirit and letter of the macrosocial contract.

Microsocial Contracts

Economic communities, understood as self-defined groups that carry on economic activity and that are capable of establishing norms of ethical behavior for themselves, generate microsocial contracts that establish rules for their members in moral free space. Authentic norms are ones that reflect agreed-on attitudes and behaviors of most members of a community. They are the practical ethical rules that guide economic communities. To create binding obligations on community members, norms must be sufficiently authentic to represent consent by the community. This is possible only when a community recognizes appropriate rights to exit and to voice. Exit opportunities should be reasonably available, although they need not be costless. The opportunity to exercise voice needs to be evaluated within the context of organizational environment and decision-making processes.

Even if a norm is authentic to a community, it will not create a binding obligation on community members if it violates universal ethical principles called hypernorms. Hypernorms are principles so fundamental that they constitute norms by which all other norms are to be judged. Clues to their existence can be found in the convergence of religious, political, and philosophical thought. When authentic norms are compatible with hypernorms, they become fully legitimate and create morally binding obligations. If incompatible, they are not binding. For example, the norm in a neighborhood that prescribes “Never sell your house to a person whose skin color is X”
can be shown to violate the hypernorm of non-discrimination; in turn, the neighborhood norm is illegitimate and thus nonbinding on members of the neighborhood.

ISCT defines three types of hypernorms. **Procedural hypernorms** reflect the consent requirements of the macrosocial and microsocial contracts. **Substantive hypernorms** specify fundamental conceptions of right and wrong and good and bad and are exogenous to both macrosocial and microsocial contracts. Examples of substantive hypernorms include promise keeping, respect for human dignity, and the right to be informed concerning physical dangers in the workplace environment. **Structural hypernorms** recognize rights and principles essential for the establishment and successful operation of just institutions in society. Examples include the right to own property and the “hypernorm of necessary social efficiency.”

Individuals making ethical judgments may at times confront conflicting legitimate norms. Many transactions span communities (e.g., a U.S. firm may do business in India) and involve conflicting norms. In such instances, ISCT recognizes a set of six priority rules for sorting among mutually exclusive legitimate microsocial norms: (1) Transactions solely within a single community, which do not have significant adverse effects on other humans or communities, should be governed by host community norms. (2) Community norms indicating a preference for how conflict of norms situations should be resolved should be applied, so long as they do not have significant adverse effects on other humans or communities. (3) The more extensive the community that is the source of the norm, the greater the priority that should be given to the norm. (4) Norms essential to the maintenance of the economic environment in which the transaction occurs should have priority over norms potentially damaging to that environment. (5) Where multiple conflicting norms are involved, patterns of consistency among the alternative norms provide a basis for prioritization. and (6) Well-defined norms should ordinarily have priority over more general, less precise norms. These rules are not meant to constitute a precise calculus. They must be weighed and applied in combination with one another.

**Thomas J. Donaldson**

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**INTERACTIONAL MODEL OF CULTURAL DIVERSITY**

The interactional model of cultural diversity (IMCD) posits that the type and form of diversity in a defined social system, such as a school, a business firm, or a nation, will combine with characteristics of the climate for diversity in that system to impact a variety of individual and collective (e.g., organizational, societal) outcomes. The existence of cultural diversity presents specific challenges and opportunities that, depending on the climate factors, can produce either positive or negative effects on organizational performance or societal well-being. The emphasis on climate factors as determinants or moderators of the relationship between diversity and organizational performance is a key feature of theory. Although this main tenet of the theory is thought to be applicable for understanding the dynamics of cultural diversity at the societal level of analysis, the focus of the theory is on cultural diversity in organizations. In addition to this basic tenet,
the theory is extended through a series of 44 specific predictions, labeled propositions. These theoretical propositions describe how various diversity-relevant concepts relate to one another. Each of these propositions contains a piece of the philosophy about how cultural diversity impacts organizational life. Following this introduction, the fundamentals and evolution segments of this entry explain the concepts and theoretical arguments of the IMCD and how they evolved from previous theory and research. An example of the propositions of the model is given for each diversity factor discussed. Next, the importance segment briefly addresses the contribution and practical utility of the model within the field of the management sciences.

**Fundamentals**

Before offering a more detailed explanation of the concepts and theoretical arguments of the theory, it should be noted that the IMCD is intended to apply to a wide spectrum of types of diversity; however, the common denominator is that the types of difference must have social and cultural significance in the social system involved. The social dimension highlights the fact that individuals have group affiliations that are meaningful to members of other groups and that add an intergroup component to their life experiences. The cultural dimension means that these differences, to varying degrees, have identifiable norms, values, attitudes, mores, and traditions distinguishable from those of other groups. Therefore, the theory does not attempt to address the implications of all human differences. Differences such as height, introversion/extroversion, physical attractiveness, and so on may have effects on the experiences of people in organizations, but the IMCD is focused on those differences that are clearly defined in previous theory and research as social/cultural identity groups.

**Diversity**

The term diversity is defined here as differences of social and cultural group affiliations. The use of the term affiliation is deliberately substituted here for identity to convey the key point that people may be linked to specific social/cultural groups by others with whom they interact regardless of whether or not they personally identify with the group or adhere to the cultural norms of the group. For example, people sometimes say they are Christians or are viewed by others as being Christians and treated accordingly, when in reality they observe few, if any, of the values and cultural traditions of the Christian religion. In the model, the term diversity has two components, type and identity strength. Type refers to the specific categories of difference present. The workforce of an organization is said to be culturally diverse when it contains a mixture of people of different social/cultural groups. The level of diversity is thus a function of the amount of social/cultural group difference that is present. This means an organization can be highly diverse on one dimension, say gender, while very low on another such as national origin. The theory views each type of diversity as having its own stream of dynamics. Thus, the level and form of gender diversity interacts with the climate for gender diversity to determine the impact of gender diversity in the organization and so on. Of course, most organizations have many types of diversity present and even single individuals have multiple social group affiliations. Hence there is inevitable overlap and complexity in the application of the model to specific organizational scenarios.

The term identity strength in the model refers to the extent to which a particular social group identity is salient in the self-concept of a person. People differ greatly in the extent to which they are conscious of, and enact behaviors based on, specific group affiliations. One of the findings related to this is that social group identity salience for individuals tends to be greater in settings where one’s identity group is in the minority as opposed to other settings.

The model predicts that when people identify strongly with a social group affiliation, the climate for that dimension of diversity will have more impact on their experiences at work, their personal work outcomes, and subsequently, on the diversity-related organizational performance outcomes their work affects. It follows then that both the potential benefits and potential costs of diversity are muted to the extent that members do not acknowledge or enact behaviors related to their different group identities.

*Sample theoretical proposition:* Persons who identify strongly with a minority social/cultural group, to the exclusion of identification with the majority culture, will experience more negative career outcomes than persons with other social group identity structures.
Diversity Climate

The climate of organizations is complex. Here, we are concerned with specific aspects that have been shown in previous research to be especially relevant to the presence of diversity. Eleven factors are identified in the model as forming the diversity climate. Each will be defined and its connection to diversity briefly explained.

Prejudice. Here, prejudice is defined as holding pre-dispositions to dislike or show other forms of negative attitudinal bias toward people based on their membership in a social identity group. The behavioral corollary to prejudice is discrimination.

Sample theoretical proposition: Group identity-related prejudice among employees will hinder effective interpersonal relations and, ultimately, organizational performance.

Stereotyping. Although it can be viewed as a form of prejudice, stereotyping is more specifically a belief system in which individuals are assumed to have certain characteristics, levels of ability, or limitations based on their membership, or assumed membership, in a social identity group. Although theoretically an assumption of superior ability may be due to stereotyping, most stereotypes tend to have negative connotations.

Sample theoretical proposition: Stereotyping behavior is prevalent in organizations, and where present, adversely affects the job performance of stereotyped members and, ultimately, organizational performance.

Personality. Some research that suggests that certain personality traits such as authoritarianism and tolerance for ambiguity are related to the climate for diversity.

Sample theoretical proposition: Higher concentrations of people high on authoritarian personality will adversely affect performance in diverse groups, whereas higher concentrations of people with high tolerance for ambiguity will tend to enhance performance in diverse groups.

Cultural differences. When people of different social/cultural identity groups share a social context, they will share certain cultural traits but also represent differences of culture embedded in their respective cultural backgrounds. East Asians often experience people from Western cultures as being somewhat rude and as being short on respect for authority. Americans and people from many Arab and Asian backgrounds have very different mind-sets about physical space, and men and women tend to have certain nuances of difference in communication styles. These and other differences are based on normative standards of groups, and there is no suggestion that they apply to all individuals within any particular social identity group, but the differences of group norms do matter in some situations. It follows that the more different the cultural traditions and the stronger the identifications with the subgroup, the greater the impact this factor will have on the diversity climate.

Sample theoretical proposition: Ignorance of cultural differences is a source of ineffectiveness in the work performance of diverse workgroups, whereas knowledge of cultural differences will enhance work relationships and work team effectiveness.

Ethnocentrism. Ethnocentrism is a human tendency to view social identity groups with whom one identifies as being more central, more important, or more valid than other groups. It is manifested by in-group pride and favoritism and often also by ostracism of “out-group” members. Mild behavioral forms of this tendency can be seen in organizations in things such as people of the same race or national origin grouping together for lunch or other social interactions. More extreme forms occur when in-group members are blatantly favored for promotions or other important career enhancements.

Sample theoretical proposition: In general, higher levels of ethnocentric thinking and behavior, especially by cultural majority group members, will tend to lessen the potential performance benefits of diversity and increase its potential performance detriments.

Intergroup conflict. In diverse groups tension and conflict sometimes arise specifically because of diversity-related phenomena. For example, in a research and development organization, conflict may develop between engineers and scientists due in
part to significant differences of language, goal orientations, and ways of approaching problems between the two areas of specialization. Likewise, native-born members of organizations may clash with foreign born members over the use in the workplace of languages other than the majority-group language.

Sample theoretical proposition: In diverse workgroups, the potential for diversity-related conflict between members of different social identity groups can be minimized by (a) reconciling competing goals, (b) increasing resources where possible, (c) ensuring that cultural differences are well understood, (d) ensuring that power is distributed in a representative manner consistent with genuine qualifications, and (e) affirming the identity of minority-group members.

Organizational culture. The culture of organizations consists of values, norms, and modes of operation, or mores. It is almost axiomatic that a strong culture for people in general will be useful for leveraging the potential of diversity. In addition, specific values and norms are especially relevant to cultural diversity. For example, fairness is a common organizational core value that is easily connected to diversity. Similarly, organizational norms and mores in areas such as openness to dissenting views, level of decentralization, and status consciousness are highly relevant to diversity climate.

Sample theoretical proposition: Organizations with cultures featuring norms such as openness to dissent, high decentralization, and a lower level of status consciousness will be more likely to receive the potential performance benefits of diversity than organizations with cultures containing the opposite characteristics.

Acculturation. Organizations cope with gaps between the culture of the organization and that of entering members in different ways. The methods of coping are referred to as modes of acculturation. Some level of required conformity in which entering members are socialized to adopt the existing cultural preferences of the organization exists in virtually all organizations. When the level of required conformity is extreme, involving a very wide spectrum of behaviors, the assimilation mode of acculturation is in place. In rare cases, there may little effort made to conform people to a standard set of norms and values, a form of acculturation sometimes called separation or deculturation. A third commonly identified mode is pluralism, in which the organization enforces conformity to a set of core values and norms while tolerating differences in behavioral areas considered to be nonessential for the coherent pursuit of organizational goals.

Sample theoretical proposition: Organizations using pluralism as the preferred mode of acculturation in highly diverse settings will reap more of the potential benefits of diversity and avoid more of the potential performance detriments than organizations featuring other forms of acculturation.

Structural integration. The IMCD indicates that the proportional representation of subgroups in organizational settings is an important dimension of the overall climate for diversity. For example, the percentage of women in a defined workforce or other social setting and the gender balance in positions of higher authority are key characteristics of climate that affect the cost-benefit impact of a diverse population.

Sample theoretical proposition: Low proportional representation of an identity group in the workforce of an organization will create obstacles to career success of that group and, ultimately, to the effectiveness of the overall workgroup or organization.

Informal integration. While the structural integration dimension of the model deals with participation in the formal structure of organizations, this dimension recognizes the relevance of the informal organization. The IMCD predicts that access to the informal organization intersects with social identity to produce important dynamics in culturally diverse organizations. Information is shared and social capital is built or diminished in informal settings and relationships.

Sample theoretical proposition: Much of the tendency toward segregation in informal networks is due to cultural ethnocentrism by members of all social identity groups. However, the negative career impact of segregated networks will be greater for minority-group members because of power imbalances in organizations.
**Interactional Model of Cultural Diversity**

**Human resource systems.** Policies and practices that define the human resource system of an organization must be sensitive to the dynamics of a culturally diverse population. For example, some years ago when fully ambulatory people in one of the author’s classes spent a day trying to get around campus in a wheelchair, it opened their eyes to numerous unintended ways in which the environment was insensitive to people who cannot walk. Performance appraisal processes that rely on self-evaluations are inherently unfair to people from cultural traditions that teach modesty. Recruiting processes that rely on a small list of elite schools put young people from lower socioeconomic backgrounds at a distinct disadvantage. These are just a few of numerous ways in which bias related to social identity groups can become institutionalized in the culture of organizations.

*Sample theoretical proposition:* Organizations that perform HR systems audits to identify and change policies and practices that tend to create culture identity-related bias will be more successful in attracting, retaining, and using human talent than organizations that do not perform such audits.

**Evolution**

The IMCD is part of a large and growing body of theory and empirical research over the past two decades that has established cultural diversity, and its management, as factors of increasing relevance and importance to the effective management of people and the overall understanding of the functioning of organizations. Academically, the theory has its roots in pioneering work in sociology and social psychology, especially social identity theory and intergroup dynamics, and also in work from the field of organizational behavior such as that on organizational culture and equal employment opportunity. A detailed discussion of the streams of work from which the IMCD evolved is beyond the scope of this entry, but a few examples will be cited.

Previous research on social identity makes it clear that differences such as gender, national origin, race/ethnicity, socioeconomic class, religion, age cohort, and area of work specialization have both social and cultural dimensions. The structural integration concept in the model builds on streams of research, including tokenism and affirmative action. The informal organization construct of the model is grounded in the literature on mentoring and social networks; the treatment of acculturation in the model borrows heavily from work on mergers and acquisitions. In addition, the IMCD also builds on writings from the early 1990s on the concept of diversity, including pioneering writers such as Marilyn Loden and Judy Rosener, Roosevelt Thomas, John Fernandez, Lennie Copeland, and Susan Jackson, as well as the author’s own earlier writings.

The impetus to create the IMCD derived from a desire to address what many viewed as a significant gap in the management literature, a gap defined by an increasing presence of diversity in the workplace coupled with a dearth of theory and empirical research addressing the impact of diversity on organizational behavior and effectiveness. It was also born of a desire to address a series of interrelated pressing social and economic challenges of our time—namely, the need for a more full use of, and opportunity for, people of all social/cultural backgrounds to reach their full potential and the need to capture the power of diversity to enhance organizational performance and to avoid or minimize its potential to detract from it. In this context, the generic scope of diversity incorporated in the model is paramount. The goals just mentioned were equally relevant for differences of physiological ability, gender, national origin, race, and so on. However, concerns about a better understanding of the impact of differences of race, gender, and national origin were especially potent because of the globalization of the workforce and demographic trends in the workforce of the United States indicating that it was going to be increasingly racially diverse and that women were participating in record numbers. It was in this context that the IMCD was conceived, and although it has undergone minor adjustments over the past nearly two decades, the ideas originally convened in the model remain largely unchanged.

**Importance**

As noted earlier, the IMCD is grounded in the idea that the climate for diversity, as defined above, moderates or determines the nature and impact of diversity on various outcomes. These outcomes include individual factors such as job mobility and compensation, group-level factors such as the quality of group communications and team problem solving, and ultimately organizational-level factors such
as recruiting success, employee turnover, customer satisfaction and market share. In the United States, certain core dimensions of diversity such as race/ethnicity and national origin continue to increase at a high rate of change. Organizations that fail to achieve and maintain a welcoming climate for this diversity will find it increasingly difficult to attract, retain, and receive the full potential of contribution from the best available human talent and to market successfully to a culturally diverse customer base. The interactional model provides a framework for analyzing and changing organizations by identifying the key factors of cultural diversity and making specific predictions about how they relate to one another and to organizational effectiveness. The core model and the propositions derived from it form a comprehensive view of the challenges and opportunities of cultural diversity.

One way to characterize the contribution of the theory is that it summarized in one conceptual framework many critical streams of work and then attempted to extend that work by making new or qualitatively different statements about how concepts from those streams interrelate. Another way to speak about impact relates to the theme that runs through the theory that connects diversity dynamics to organizational performance. Although with some, the proposition remains controversial that the presence of diversity, at least if properly managed, creates a resource that can increase organizational performance, one may fairly point out that it has gained a much larger following as a result of the work described here and a great deal of related work by other authors (see Further Readings list at the end of this entry for examples).

While the sheer complexity of the model makes an empirical test of the full theory impractical, studies conducted both before and after the theory was originally published have confirmed the veracity of various propositions of the theory. The author’s research of variables represented in the theory conducted during consulting projects in more than 100 organizations over the past two decades supports the value of the theory to promote understanding of how diversity impacts organizational life and goal achievement.

It is hoped that this revisiting of the IMCD theory will spur even more research and theory construction, as well as assist practitioners in constructing more sophisticated, proactive approaches to leading diverse workgroups. As stewards of our social and economic landscape, it is vital for us to continue to advance our knowledge in this area of management science as we prepare for a future in which cultural diversity will be an ever more salient feature of the world in which we live and work.

Taylor Cox Jr.

See also Competitive Advantage; Fairness Theory; Group Development; Managing Diversity; Organizational Demography

Further Readings

INTERACTIONIST MODEL OF ORGANIZATIONAL CREATIVITY

Organizational creativity is commonly defined as the creation or generation of a valuable, useful new product, service, idea, procedure, or process
by individuals working together in a complex social system. This definition includes the two key dimensions of creativity or creative behavior: (1) originality, or novelty, and (2) value, or utility. As such, this definition of organizational creativity can be considered an extension of commonly accepted definitions of individual creativity into the organizational context. Similarly, the interactionist model of organizational creativity was developed from an interactionist model of creative behavior at the individual level. The individual level model grew out of a desire to develop a theoretical lens for examining creative behavior that would avoid the fragmentation created by the multiple perspectives on or explanations for creativity that existed in the field. This developmental path has its origins in the notion of an interactionist perspective as a meaningful way to understand human behavior. This entry explores the interactionist perspective on behavior, the origins of the interactionist model of creative behavior, the defining characteristics of the interactionist model of organizational creativity, and the implications of this theory for further research and managerial practice.

**Fundamentals**

*The Interactionist Perspective on Behavior*

Personality theorists have had a long tradition of competing explanations for human behavior that have oscillated between extreme positions where personality was considered to be completely determined by heredity versus the notion that the individual differences we think of as personality are explained solely by the environment (the classic *nature versus nurture* debate). In contemporary times, a balance of sorts has become the most commonly accepted position. Most psychologists today, working in the personality arena, argue that personality is determined both by genetics and by the influence of the environment or situation, though they might disagree about the relative contributions of heredity and learning. The “nature versus nurture” debate in personality development finds a parallel in a fundamental dichotomy concerning the origins of human behavior: How best to theorize about the human being? Is behavior largely a function of characteristics and attributes of the person, or is human behavior most readily explained by the situation or context within which the behavior occurs?

As with personality, the *interactionist* position is also the predominant one with regard to the larger issue of human behavior in general. That is, an interactionist perspective on behavior suggests that the behavior of an individual, at any moment, is determined both by the situation within which the individual is behaving and by what the individual brings to the situation, so to speak. In other words, behavior is a function of both characteristics of the person and aspects of the situation or context. Interactionist psychology (sometimes called interactional psychology) has become such a mainstream notion that the terminology has almost disappeared from the literature. One would be hard-pressed to find a behavioral scientist who would argue that an understanding of behavior could rely solely on specifying the “environmental press” or, on the other hand, rely solely on understanding personality and other important individual differences. Simply put, most behavioral scientists view behavior as a function of both person and situation. In the same vein, theorists and researchers concerned with explaining creative behavior have developed a variety of perspectives that have mirrored the theoretical debates occurring with regard to behavior in general.

*Individual Creativity From the Interactionist Perspective*

The interactionist perspective on creativity is based, most fundamentally, on the notion explained above; that is, all behavior, including creative behavior, is a function of person and situation. Further, the development of the interactionist model of creative behavior, which was the forerunner of the interactionist model of organizational creativity explained below, was informed by the seminal theoretical contributions to the psychological sciences of Hans Eysenck—most specifically, his approach to “modeling” human behavior. Eysenck’s work focused very much on understanding the psychology of individual differences and, one suspects, he would have been very surprised to be given any intellectual credit for a theoretical position that is so heavily interactionist. Nevertheless, his approach to understanding human behavior, while emphasizing the attributes and characteristics of the individual, is quite interactionist at some level of abstraction. He advocated exploring all the possible explanatory variation related to a
behavioral outcome, certainly including the environmental press or context within which the behavior occurs.

Similar to the ancient parable of a blind man describing an elephant, various theoretical perspectives on creative behavior have tended, historically, to focus on particular sources of explanatory variation to the exclusion of other influences. For example, a theory of creativity developed from the perspective of developmental psychology might explain creativity as most significantly influenced by early life experiences. Most central to our discussion here, many theories of creative behavior have been developed from one of three major perspectives: (1) personality explanations for differences in creativity, (2) cognitive style or ability explanations, and (3) social psychology. Each of these perspectives has demonstrated insight and explanatory power, yet each suffers from the same shortcoming of presenting a partially valid but incomplete explanation for human creativity. Social psychological explanations of creativity are probably closest to the interactionist perspective presented here, in that theories developed from that perspective emphasize the importance of social interaction and typically include a number of social and environmental influences on creative behavior.

The interactionist model of creative behavior incorporates elements of the personality, cognitive, and social psychology explanations of creativity. Creativity is viewed as a complex person-situation interaction that depends on antecedent conditions to the current situation, the current situation, the current state as well as stable attributes of the person, and the interaction of these sources of explanatory variance. Characteristics of the “person” that influence creativity include both cognitive (e.g., information-processing abilities, cognitive “styles”) and noncognitive (e.g., personality, beliefs, attitudes) attributes. The “situation” consists of both contextual and social influences (e.g., social interactions with others, work relationships, and so on). In sum, the interactionist model of individual creativity was developed to provide a theoretical lens or framework that would be inclusive, rather than exclusive, with regard to possible sources for or explanations of creative behavior. This interactionist model has been extended into the organizational context.

Organizational Creativity From the Interactionist Perspective

The interactionist model of organizational creativity may be summarized as follows: The creative behavior of organizational participants is a complex interaction influenced by events of the past as well as salient aspects of the current situation (e.g., the “social” context, characteristics of the work setting). Within the person, both cognitive (e.g., knowledge, cognitive abilities) and noncognitive (e.g., personality) aspects of the mind are related to creative behavior. In sum, creative behavior in a complex social system is a function of many aspects of person and situation: cognitive style and ability; personality factors; attitudes and beliefs; motivation; relevant knowledge; influences from coworkers; membership in various groups and teams; contextual influences, including task demands and constraints; and so on.

In the organization, the theoretical model assumes that these complex interactions are repeated at each level of social organization. That is, group or team creativity is a function of individual creative behavior “inputs,” the interaction of individuals involved, various characteristics of the group that impact creativity, and characteristics of the organization that impact group functioning. The creativity of the organization is a function of the creative inputs of its component groups and teams and of various contextual influences at the organizational level (e.g., organizational culture, reward systems, resource availability) that impact individual and group creativity. The gestalt of creative output (new products, services, ideas, procedures, and processes) for the entire social system stems from the complex mosaic of individual, group, and organizational characteristics and behaviors that occur within the various situational influences (both creativity constraining and creativity enhancing) existing at each level of social organization. Of course, such a description does not richly capture the dynamic nature of reciprocal causation with its many possible feedback loops. Further, creativity, as with all other types and patterns of behavior, represents a process that unfolds over time. The reader is referred to the suggested readings at the end of this entry for a fuller description of organizational creativity from the interactionist perspective.

The basic explanations for creative behavior within an organization can be usefully summed
up by three propositions (which provide, perhaps, a more straightforward way of stating the points made in the previous paragraph):

**Proposition 1:** The creative performance or behavior of individuals in an organization depends on (a) characteristics possessed by these individuals, (b) social influences that enhance or constrain individual creativity, and (c) contextual influences that enhance or constrain individual creativity.

**Proposition 2:** The creative performance or behavior of groups and teams in an organization depends on (a) the creative performance of group members, (b) aspects of the group or team that enhance or constrain creativity, and (c) contextual influences that enhance or constrain the group’s or team’s creativity.

**Proposition 3:** The creative performance of the organization depends on the creative performance of the groups and teams of which it is composed as well as other aspects of the organization that enhance or constrain creativity.

**Importance**

A number of important implications for both creativity research and the effective management of organizations can be developed from an interactionist perspective on organizational creativity. Space does not permit a detailed exploration of these implications so, again, the reader is referred to the list of suggested readings that accompanies this entry.

Among other things, an interactionist approach suggests that research on organizational creativity must cross levels of analysis. Many of the social and contextual influences on creative behavior represent cross-level influences. For example, characteristics of the organization, such as information flows and communication channels, could either enhance or constrain group or team creativity. Characteristics at the group level—for example, certain group norms—might either enhance or constrain the creativity of individual group members. And so on—the possible examples are legion. Indeed, there is a wealth of accumulated research in the organizational sciences pointing to such cross-level influences. Based on extant knowledge in the field, it appears that a theory of organizational creativity that did not include such potentially important sources of explanatory variance would be woefully incomplete. Further, the complex person-situation interactions that are central to understanding organizational creativity and the creative process in organizations emphasize the importance of longitudinal field research to advance our understanding of organizational creativity.

With regard to implications for practice, research to date suggests that, in the person-situation interaction that lies at the heart of organizational creativity, possibly the most important managerial focus should be on managing the “creative situation” or context. Understanding characteristics of the person—the cognitive and noncognitive aspects of the mind crucial for understanding creative behavior—will always be important. Still, with the obvious exception of selecting creative “talent” for the organization, it may be less useful to focus on the “person” in person-situation interactions than on the situation, at least from the perspective of managerial action. The argument here is based in part on the notion that it can be quite counterproductive to attempt to manage too closely either creative persons or, at some level of abstraction, the creative process. Both extant research and the interactionist model of organizational creativity suggest that many contextual factors that influence creative behavior and creative outcomes in organizations can be identified. These factors can be conceptualized as essentially either increasing or reducing the probability of creative behavior. From this perspective, the “high-payoff” strategy for management is to design and manage the situation—that is, to design into the situation factors that increase the probability of creative outcomes and to remove from the situation those factors that inhibit or reduce creativity. The situational factors are what we manage rather than creativity per se.

Richard W. Woodman

See also BVSR Theory of Human Creativity; Componential Theory of Creativity; Dual-Core Model of Organizational Innovation; Ethical Decision Making, Interactionist Model of; Investment Theory of Creativity; Patterns of Innovation; Stages of Creativity; Stages of Innovation

Further Readings


INTERORGANIZATIONAL NETWORKS

An interorganizational network is defined as a set of organizations related through common affiliations or through exchange relations. Examples of such networks include interorganizational joint product ventures, strategic business alliances, supply and distribution channels, industry trade associations, governance councils, or human services networks of education, welfare, police, and hospitals in communities. Interorganizational networks are not defined by a particular theory, nor are they considered a theory themselves; instead, a collection of theories is used to explain their structure and influence. In this entry, three theories that underlie most studies of interorganizational networks are explained: (1) social dependence and exchange theory, (2) brokerage or structural hole theory, and (3) closure or social conformity theory. These theories explain why organizations form relations and how certain structural positions within a network advantage and disadvantage some organizations over others of similar ability. Those in favorable network positions have greater social capital, meaning they can draw on valuable resources or helping behaviors through their network relationships. There is also growing research attention in understanding of how networks evolve over time. These studies explain the formation of present ties and network structures based on past relations and structures.

Fundamentals

Research on interorganizational networks is a subdomain of social network analysis, which includes analysis at levels more micro (e.g., among individuals and groups) and more macro (e.g., industries and nations). Methods of social network analysis are typically used to study the structure and evolution of relations among organizations in a network. This methodology adopts the vocabulary of nodes and ties to represent organizations and relationships among them (respectively). Ties represent a type of connection joining the nodes. Ties may be bonding relationships in which organizations share common affiliations, such as joint ventures, or ties may signify flows of resources, such as information, human capital, goods, or client referrals. Multiplex ties often exist among organizations in a network, which means that ties may involve multiple types of resources or may connect at multiple levels in the organizations, making relationships more complex and more difficult to dissolve. These ties could represent ownership investments, buyer-seller exchanges, or myriad other affiliation or exchange relations.

Social Exchange Theory

According to resource dependence theory, all organizations depend on other organizations in their environment for resources and inputs vital to their functioning and survival. As they establish exchange relationships with and become dependent on other organizations for resources, the latter gain in relative power over the former. This classical view of asymmetric power in social exchange suggests that parties seek to minimize their dependence on other parties and to maximize the dependence of others on them. Organizations seeking external resources from other, more powerful parties try to counteract those parties’ power advantage by positioning...
themselves in a resource network. Specifically, they can enhance their position in the network by establishing numerous ties with potential resource providers (and thereby reduce their dependence by having numerous alternative suppliers) and by restricting or mediating access to resource exchange ties they have that others value.

A less instrumental view of social exchange recognizes the social embeddedness of relationships. As parties interact and negotiate their relationships, they also gain awareness, affiliation and interdependence to shared norms and goals. Following a sense of security that is provided by embedded and closed networks, parties feel less vulnerable to opportunistic behavior. This allows them to focus on the joint (or total) dependencies among parties in a network. It suggests that parties involved in highly interdependent relationships may have a richer and deeper level of interaction that has beneficial outcomes for all parties.

**Brokerage or Structural Holes Theory**

Brokerage or structural holes theory explains how organizations can gain an advantage over others by maintaining a broker, or middle-person, position in the network. The opportunity to broker occurs because networks often possess clusters of organizations that are more densely connected, but these clusters are not attached to one another. The nonexistence of ties between clusters creates a structural hole.

In a brokerage position, an organization can access resources through the bridging tie that other organizations cannot. Brokers can also exploit their position by controlling the flow of resources between otherwise unconnected organizations. Access to and control of resources increases social capital, which advantages the broker. On the other hand, if an organization has many redundant ties—which eliminates the brokerage position—the organization has access to the same resources that other organizations can access. There is nothing unique about the flow of resources among organizations. In such instances, social capital will be relatively homogenous among actors. It is the brokerage position, then, with no redundant ties that gives firms unequal access to and control of resources.

**Closure or Social Conformity Theory**

Closure exists in dense networks in which organizations have many ties with one another. Closure allows for the accumulation of social capital, both to individual organizations and to the network as a whole. Norms can be enforced since organizations are aware of the actions of all other organizations in the network. If an organization acts rouguishly (e.g., it fails to honor an obligation to another organization), other network members will learn of it and sanction the rogue organization (e.g., halt relations with the rogue firm). If closure does not exist, then only the victimized organization can sanction the rogue member, which has less effect. Thus, closure is important for the formation of norms and the development of trustworthiness. Norms or reciprocity and trustworthiness act as a common form of social capital available to all the members of the network.

At the level of individual organizations, social capital is built based on the accumulation of obligations other network members owe an organization. Based on norms of reciprocity, an organization that does something for an alter, such as sharing resources or giving help, accumulates an obligation outstanding. At some future time, the alter must repay the obligation owed to the organization. An actor who accumulates many obligations outstanding is able to recall these when desired. The ability to recall obligations gives the actor greater social capital.

**Network Change Over Time**

Network change over time is explained both by the dynamics within relations and by structural characteristics surrounding relations. Within a dyad (two organizations with a tie), relations emerge, strengthen, and decay over time through repeated cycles of bargaining, commitment, and execution activities. Relations are more likely to persist when they are viewed as equitable and efficient by both organizations.

A tie between two organizations can be influenced by a third organization—the three together making a triad. Both transitivity and structural balance explain the impact of triads on ties. Transitivity exists in the presence of strong ties. When strong ties exist, it is likely for organizations to associate frequently, to be located close to one another, and to be similar to each other. Time, proximity, and similarity all lead to a greater likelihood that firms with ties to a common third organization will also form a tie.

Structural balance considers whether the ties in a triad are positive or negative—whether organizations are cooperative allies or competitive rivals. The three ties in a triad are balanced if all three ties
are positive or if two of the three ties are negative and the other tie is positive. The latter balanced triad represents the familiar proverb, “The enemy of my enemy is my friend.” If a triad is unbalanced, then structural balance suggests that one of the ties will change sign (from positive to negative, or vice versa) or a tie will dissolve. Both managers’ need to avoid cognitive dissonance, and organizations’ strategic moves account for the tendency to move from unbalanced to balanced triads.

**Importance**

Empirical support has been found in interorganizational networks for each of the theories. However, a number of questions remain for future research, particularly in the area of network evolution and the performance of whole networks. Most network research to date has focused on structure in static ways, and future research needs to explain processes of network formation, development, and dissolution over time. Some informative research at the level of the dyad and triad does exist, but other patterns of network evolution are relatively unexplored. Little is known about the development of interorganizational cliques and status as they evolve over time. Research on the overall patterns of network evolution is also needed to understand how they grow and decline, how they become more closed or open, and how they become more structurally diverse or similar.

Concerning performance, most studies have examined competitive advantage for individual organizations positioned in networks; relatively few have addressed whole network structure and performance. For instance, a set of organizations may be networked together as a supply chain, and they compete against other sets of firms networked together in rival supply chains. The cooperative benefits and vulnerabilities of the collective network of symbiotically related members that compete against other networks need further study. Also, little is known about the part-whole relationship between the performance of individual organizations and the performance of the entire network. Structural hole theory explains how individual organizations gain advantage because of their position in the network. However, research has not yet shown whether the benefits gained by brokers translate into more or fewer benefits for the entire network.

Managers who are aware of the position of their organizations in the larger network can use this understanding to make better-informed decisions. Understanding network position relative to other organizations—both collaborators and competitors—can clarify structural constraints and opportunities that impede and empower organizational action. If managers are cognizant of not only their interorganizational relationships but also the relationships among other organizations, then managers can develop strategies to foster new relationships or alter their existing relationships to change the network structure to their advantage or, in the case of cooperative networks, to increase the welfare of the whole network.

Stephen Jones and Andrew H. Van de Ven

**See also** Institutional Theory; Multifirm Network Structure; Resource Dependence Theory; Social Exchange Theory; Social Network Theory; Strategic Alliances; Value Chain

**Further Readings**


INTUITIVE DECISION MAKING

In the vernacular, intuition is equated with “trusting your gut” and involves knowing something without knowing how you know it. A subject of scholarly discourse for hundreds of years, intuition has become a topic in management primarily in the last few decades. While conceptualizations in philosophy, psychology, and management vary to some degree, Erik Dane and Michael Pratt suggest four characteristics that are fundamental to intuiting. With regard to the process of intuitive decision making, or intuiting, they note that information processing during intuiting is (a) nonconscious, (b) happens quickly, (c) holistic rather than analytic, and (d) affectively charged, from start to finish. With regard to the outcomes of intuiting, we argue that intuiting results in the formation of a judgment. Put plainly, intuition is a relatively fast way to make judgments that involves seeing patterns across data or stimuli. The process of intuition occurs outside conscious awareness; thus, one arrives at a judgment without knowledge of what went into that judgment. Intuiting is also infused with emotions. Researchers suggest that emotions (especially positive ones) can trigger the intuitive process; emotions can be part of the intuitive processing of information; and the intuitive judgment one arrives at also has an affective tint to it (e.g., one might feel positive and confident). This entry distinguishes intuition from other types of decision making, provides an overview of what makes for “effective” intuiting, and discusses some controversies in the field. It concludes by proposing some future research directions as well as practical managerial implications of extant research.

Fundamentals

Intuitions is most often contrasted with rational decision making. The latter is often conceptualized as conscious, deliberate, analytical, and according to some, largely devoid of emotion. Some suggest that intuition and rational decision making may even correspond to different information-processing systems within human beings (e.g., experiential vs. rational, or System 1 vs. System 2). However, the existence of two separate or dual information-processing systems has been questioned in recent years.

Intuition is often confused with “guessing,” “instinct,” and “insight.” Although fast, intuition is different from blind guessing; it involves drawing on deeply ingrained cognitive structures, such as heuristics or schemas, to make affectively charged associations. As a consequence, individuals tend to have more confidence in intuition than in guesses. Intuition is different from instinct in that the former draws on experience, while the latter is based on one’s biological “hardwiring,” such as automatic reflexes. Intuition is also different from insight, which involves both conscious deliberation (and thus is not totally nonconscious) and an incubation period (which makes it slower than intuiting).

Apart from identifying what it is, much research has focused on when intuition is likely to be effective. Historically, rational analytic approaches are often seen as providing superior outcomes compared with intuition, although this decision-making process is much slower. Hence, some talk about a speed versus effectiveness trade-off in decision making. Intuitions, however, can yield better outcomes than rational models depending on (1) the level of the experience of the decision maker and (2) the nature of the task at hand. Put simply, individuals who have a lot of experience (i.e., experts) in a particular area are primed to be more effective with intuition than rational decision making depending on the type of task they face. By expert is meant someone who has learned domain-relevant information either consciously—through deliberate practice and receiving quick and relevant feedback—or unconsciously (i.e., implicit learning) by paying close attention to one’s environment. While there is no “magic number” of practice time needed to become an expert, some estimates place it at 10 years, while others 10,000 hours.

Experts, however, are most effective in their use of intuitive decision making when the task at hand is one where there is more than one right answer (i.e., judgmental) or where the task cannot easily be subdivided and attended to in smaller chunks (i.e., non-decomposable). These types of tasks are common...
in human resource management, strategic, aesthetic, and investment decisions. In short, intuition is most effective when experts are performing judgmental and holistic tasks.

**Importance**

As noted, intuition is of critical interest to management scholars given its promise to overcome the trade-off in decision making between speed and effectiveness. While research on intuition in the fields of management and organizational studies has increased in recent years, work in this area has spawned three major areas of concern that have limited its conceptual development and its impact on practice.

**Is intuition effective, and if so, when?** Intuitions are common, but are they good? Although the conditions for effective intuition are noted above, these arguments are controversial. There has been a historical divide—spearheaded by the work of Nobel Prize winners—on whether or not intuition is an effective means of making decisions. On one side of the divide, research following in the tradition Amos Tversky and Daniel Kahneman has argued that intuitive decision making is often less effective than rational decision making and thus should be avoided. In this tradition, intuitive decision making is linked to the use of relatively simply heuristics (e.g., the representative heuristic) employed in solving highly structured, intellective tasks (e.g., tasks for which one can arrive at a single “right” answer through the application of rules of probability). On the other side, research following in the tradition of Herbert Simon links intuition with complex schemas; consequently, this research argues that certain intuitions, such as those employed by chess masters, can be remarkably effective. The historical controversy has been rendered less controversial as scholars have begun to identify the conditions under which intuition may be most effective. Here, we have named two such conditions: level of expertise of the decision maker and the structure of the task at hand. Some research also finds an interaction between these two conditions, such that expertise brought to bear on judgmental or nondecomposable tasks will lead to the highest level of intuitive decision-making effectiveness.

**How many types of intuition exist?** A second area of controversy is whether there is one type of intuition or many. While some scholars are adamant that intuition should not be subdivided, others suggest that intuition may be meaningfully divided by the functions it serves: problem solving, moral, and creative intuition. Problem-solving intuition refers to the bulk of research in the area of management reviewed above. The mechanisms underlying problem-solving intuition are pattern matching and recognition.

To illustrate, expert chess players, as studied by Simon and colleagues, are able to make rapid, holistic judgments by matching the chess pieces on the board to elements within their own internalized schemas to ascertain which set of moves to make. While the schema/pattern recognition arguments are common in intuition research, Stuart Dreyfus offers compelling evidence to suggest that learning may result in direct synaptic modification rather than the formation of schemas. But however such experiences are represented or stored, problem-solving intuition is about attending to solving dilemmas.

Another “type” of intuition is moral intuition. Much research in this area builds on the work of Jonathan Haidt’s “social intuitionist” perspective (see also the “universal moral grammar” perspective). Moral intuitions are thought to arise from processes similar to those associated with problem-solving intuitions. Both are rapid and involve matching to existing schemas (though they are referred to as “moral prototypes” in this line of research). The biggest difference is that the level of affect associated with moral intuitions (e.g., a feeling that it is always wrong to do x) tends to be very intense. Such affective intensity is not necessarily found in problem-solving intuition.

A third and final type of intuition, and the one that is the most controversial, is creative intuition. Unlike problem-solving and moral intuition where a judgment is based on “matching” a situation with an internalized schema, resulting in a convergent categorization (i.e., this is wrong), creative intuition involves more divergent thinking that ultimately results in a solution that is novel and useful—thus moving beyond the preexisting contents of one’s schemas. Specifically, creative intuition views intuition—here in the form of synthesizing heretofore unrelated elements into new combinations—as a central contributing factor the creative process. In addition to its more divergent processing, creative intuition often is not immediate. Work by Ap Dijksterhuis and colleagues, for example, suggests
that this intuition, like insight, may involve an incubation period. While differing on some dimensions, creative intuition is like moral intuition in that it is often associated with relatively intense affective experiences.

**How do you measure intuition?** A final controversy concerns the measurement of intuition. While the bulk of work on intuition in organizational research remains theoretical, the relatively few attempts to empirically capture intuition showcase some methodological challenges. Some argue that certain individuals have a preference for using intuition and that this preference can be measured as a dependable individual difference. However, these measures do not tend to ascertain the presence of intuiting; rather, they assess one’s tendency to trust or rely on intuitions. Others argue that intuition can be prompted, like a behavior, under controlled conditions. These measures, however, fail to measure whether intuition is actually being used by a subject. At the other extreme, advances in neurology and physiology have attempted to directly assess the presence of intuiting through measures such as galvanic skin responses or brain imaging. However, such procedures are costly and often complex, and because of the equipment needed, occur under very artificial circumstances. Some research looking at intuition in moral situations attempts to overcome these shortcomings by using a combination of scenario-based studies and brain imaging; however, these, too, by necessity, occur in artificial situations. In attempts to get at intuition “in the field,” some research uses retrospective reports. But these may be suspect because of post-hoc interpretations and recollections. To counter this deficit, one could ask someone to narrate an intuitive decision to a researcher in real time, but this would depend on making a nonconscious process more conscious. In short, there is not yet an agreed-on method for measuring intuition. While many options exist, each carries some significant challenges.

**Toward Future Research**

As intuition research progresses, especially within the organizational realm, it is likely to continue to probe the contextual conditions that foster intuitive decision making, especially effective intuitive decision making. Research examining problem-solving intuitions, in particular, will likely continue to investigate the types of tasks most amenable to intuities, as well as the temporal, social, and knowledge acquisition factors most associated with improving the quality of intuitive judgments. Given recent corporate scandals, research on the use of intuition in moral decision making may also be fruitful. It is interesting that both psychologists and sociologists are converging on a similar conclusion: that the basis for moral intuitions is cultural. That is, societal norms and values become internalized by individuals and form the bedrock for moral intuitions. Research on moral intuitions, therefore, may begin to look at how these norms and values are transmitted to individuals and the degree to which they are “set” even before individuals join organizations. The role of intuition in creativity begs the question of whether creative intuitions are really intuitions at all or whether they are, in fact, some combination of intuitive and other forms of decision making. Future research in this area, as well as in the others, should examine whether and how intuition interacts with analysis, insight, and the like to produce creative, as well as moral and problem-solving, judgments.

**Practical Lessons**

Neither intuition nor rational analytic decision making is a panacea for managers. But when used by the right people (experts) on the right kinds of tasks (e.g., judgmental), intuition can lead to rapid and effective decisions. For example, given their link to relatively unstructured tasks, intuitions are more likely to be beneficial to managers and those who find themselves faced with task-related ambiguity, equifinality, and uncertainty. However, it is important to note intuition may also be triggered by severe time pressures. While this may be beneficial if making any decision is better than not making one at all or if performed on tasks with a definitive right or wrong answer (e.g., a math-related problem), then intuition may fail to produce good results.

The need for expertise suggests dedicated practice within a specific domain. Such a prescription may run counter to organizational and employee demands for frequent cross-training in very different types of jobs, or for protean careers, especially those that involve moving from industry to industry. What we do not yet know, however, is how similar domains need to be for experience to “transfer” from one to another. Thus, it is unclear whether bringing a CEO into a manufacturing company from a service company will allow for the effective use of intuition.
To close, intuiting is common in organizational life. Moreover, in rapidly changing conditions, it has the potential to lead to superior outcomes when compared to rational analysis. However, theoretical and methodological obstacles continue to influence the development of intuition research and its impact of intuiting on managerial practice. While progress is being made, there is still disagreement over when intuition is effective, whether or not there are certain types of intuiting, and how intuiting should be measured. Thus, there is much room for growth in this area.

Michael G. Pratt

See also Decision-Making Styles; Ethical Decision Making, Interactionist Model of; Practice of Management, The; Schemas Theory; “Unstructured” Decision Making

Further Readings

INVESTMENT THEORY OF CREATIVITY

Robert J. Sternberg and Todd Lubart, in their investment theory of creativity, use concepts from the economic realm to describe the phenomenon of creativity. In particular, it was proposed that creative people are like successful investors in the financial marketplace: they buy low and sell high. Buying low means pursuing new or undervalued ideas that have growth potential—that may be successful for solving one’s problem. Selling high means releasing a novel idea on the market when it has gained value and not holding an idea so long that others eventually have the same idea. Rather than producing work that may be good but similar to what others are doing, people who seek to be creative must deviate from the crowd, generating and advancing ideas that may eventually be recognized as new and valuable. In this entry, creative behavior is described as strategic, and the set of resources including human capital that is invested in projects is described. The resulting productions are then valued in a social setting, the marketplace. There are benefits and costs to creative activity, supply-and-demand issues, and the possibility to develop the resources needed for creativity.

Fundamentals

The buy low–sell high principle is partly descriptive of what creative people do naturally and partly prescriptive of a strategy that people may try consciously to implement to improve their creativity; people can develop a buy low–sell high attitude, similar to the “contrarian” attitude advocated for financial investors. Buy low–sell high behavior may involve an analysis of potential of ideas and of the marketplace for launching these ideas, similar to market analysts’ tactics. According to the buy low–sell high principle, people fail to be creative because they (a) buy high, pursuing ideas that are already valued or known (perhaps to avoid risk); (b) buy low, pursuing ideas that do not have growth potential; or (c) sell low, exposing an idea before the audience is ready, before the idea has gained in value, or, inversely, hold the idea too long so that it becomes commonplace.

Investment requires capital. Although physical capital and financial capital are relevant, the
human capital needed for creativity is the focus of the investment theory. This capital consists of specific intellectual abilities, knowledge, emotion, personality traits (e.g., risk taking), and motivations. Individuals vary on the extent to which they possess each psychological characteristic. For example, one person may be a risk taker, whereas another person is rather risk averse. The resources are hypothesized to develop and change over the life span.

Within the investment theory, each person possesses a portfolio of psychological resources (skills and traits) relevant to creativity. This portfolio may be actively invested in creative projects. From this perspective, the level of creative performance observed depends on (a) a person’s level on each of the resources necessary for creativity, (b) a person’s active engagement of his or her resources, and (c) the match between the portfolio of resources that a person has and the profile of resources required for creative work in a domain (or a task) (i.e., the market demands).

With regard to the specific resources for creativity, such as knowledge, some fundamental economic principles may account for observed relationships with creative performance. For example, formal education seems to show an inverted-U relationship to creativity, with an intermediate level of education being optimal. Time and energy spent acquiring advanced techniques may lead people to capitalize on their initial investment, favoring the use of existing knowledge. It is expected that people who contribute ideas to a field outside their main line of work will have less vested interest in maintaining the value of extant knowledge in that field and will experience less risk because of their “outsider” status, thus enhancing their benefit-to-cost ratio for proposing a new idea.

Risk taking, generally seen as a key to investment decisions, involves decision making in the face of potential gains or losses when the outcome is uncertain. Generally, people tend to be risk averse. People may underinvest because the potential rewards of a new idea are somewhat ambiguous compared to pursuing technically sound but mundane ideas for which the limited rewards are clear. However, work on risk taking in situations framed in terms of losses shows that people would take risks to minimize potential losses. Thus, creative ideas may be more easily pursued when they represent a possible solution to a bad situation.

Human capital for creativity can be enhanced, at least partially, through training. An investment in creativity training leads to an accumulation of human capital that can later be put to use. The investment in training depends on the marginal utility (value added) to the individual (or business organization if the decision is made by a human resource manager). For example, some occupations may demand creativity more than others, thus modulating the marginal benefits of training.

The decision to pursue creativity training is based on the marginal utility of each unit of training. A person with little human capital for creativity will benefit more than a person who already possesses many resources for creativity. Each of these individuals, however, can be expected to benefit less and less from each additional unit of creativity training, which is the phenomenon of diminishing returns. With regard to the choice of creativity training versus traditional education, David L. Rubenson and Mark A. Runco pointed out that people are more likely to invest in traditional education than in creativity-related education.

At the societal (aggregate) level, there is a supply and a demand for creative activity. The supply of creativity refers to the number of novel, useful productions (ideas, inventions, works) that the members of a social unit (such as an organization or a society) provide. The demand for creativity is the need or desire in a society for creative productions. This demand may vary across topics, domains, and across time. For example, in financially tight periods, there may be a greater market for innovations that propose less expensive alternatives than for bold but costly new products. The demand for creativity also varies from one place to another; some societies value conformity and maintenance of the status quo more than others. Thus, the value of human capital for creativity will itself vary over time, based on the market pull for creative ideas.

Sternberg and Lubart characterize environments—markets—for creativity as ranging from those that are bullish, overtly supporting creative activity, to those that are bearish, hindering creativity. A bullish environment can spark creativity by providing financial and social resources for creativity, encouraging risk taking, tolerating failures, and offering freedom and opportunities for interdisciplinary interactions. Societies and business organizations may influence the supply of creativity by increasing or decreasing incentives (or rewards) to produce new ideas.
Finally, with regard to the market for creativity, Sternberg and Lubart’s investment theory highlights the social consensual nature of creativity. Similar to John Maynard Keynes’s proposal on the value of stocks based on investors’ collective desire to possess the stock, the value of an idea depends on the audience. Thus, ideas (or productions) can appreciate or depreciate in value with time or with a change of audience. We are able therefore to understand better why some creative geniuses are “discovered” posthumously and other “greats” in their day disappear into oblivion.

Depending on whether a person’s creative activity fits the market, it may lead to benefits (extrinsic benefits, such as recognition and financial gains; intrinsic benefits, such as satisfaction with one’s work and a feeling of accomplishment). However, there are also costs to creative work, such as pecuniary costs of time and resources expended during the work, psychic costs from bearing negative reactions (among others), and opportunity costs concerning the lost benefits of pursuing other, noncreative, alternative projects. At the macroeconomic level, the benefits of creativity include an enhanced quality of life for the society in general, as well as possible stimulation in the economic sphere. Each creative idea may lead to new supplementary products and services, which is consistent with creativity as a motor for economic growth. Societal-level costs include direct financial costs, the use of physical and human resources, and opportunity costs of foregone advancements on other societal projects. The investment theory presentation has focused here on the individual-level creator, but it can apply equally well to creativity at the group level (team creativity) as well as the aggregate business unit or organizational level. Thus, a multilevel approach is possible.

Todd Lubart and Canan Ceylan

See also Brainstorming; BVSR Theory of Human Creativity; Componential Theory of Creativity; Human Capital Theory; Interactionist Model of Organizational Creativity; Stages of Creativity

Further Readings

JOB CHARACTERISTICS THEORY

Job characteristics theory (JCT) attempts to explain how characteristics of the jobs people perform affect their work behavior and attitudes. In addition, the theory identifies the conditions under which these effects are likely to be strongest. The theory’s central management insight is that employee effectiveness can be enhanced by designing jobs with high levels of key characteristics and ensuring that employees with appropriate personal qualities are assigned to these jobs. In this entry, I present the basic elements of JCT and discuss its impact on management research, education, and practice.

**Fundamentals**

JCT posits that five characteristics of the work affect several outcomes via their effects on three psychological states of employees. In addition, the theory argues that these job characteristics have their strongest effects when employees score high on three individual conditions: knowledge and skill, growth need strength, and context satisfactions. The most recent version of the theory is shown in Figure 1. As shown in the figure, the conceptual core of the theory is the set of three psychological states:

- **Experienced meaningfulness.** The degree to which the jobholder experiences the work as inherently meaningful, as something that “counts” in his or her own system of values.
- **Experienced responsibility.** The degree to which the jobholder feels personally accountable and responsible for the results of the work he or she does.
- **Knowledge of results.** The degree to which the jobholder has confident knowledge about how well he or she is performing at work.

JCT posits that the simultaneous presence of these three psychological states results in a number of favorable work outcomes. Specifically, the jobholder should (1) be internally motivated at work (i.e., feel good when performing well and feel bad or unhappy when performing poorly), (2) be satisfied both with the opportunities for personal growth and development at work and with the job in general, and (3) perform effectively at work (i.e., produce work that is both high in quantity and quality). However, if one or more of the psychological states is at low level, fewer of these outcomes should emerge.

The three psychological states are internal to jobholders and therefore do not represent properties of the work that might be designed. JCT identifies five characteristics of jobs that, when present at high levels, increase the chances that a jobholder will experience the three psychological states and, through them, shape the work outcomes identified. The specific job characteristics expected to most strongly influence each of the psychological states are as follows.

Experienced meaningfulness is influenced by skill variety, task identity, and task significance.
Skill variety is the degree to which the job requires a number of different activities in carrying out the work, which involve the use of a number of different skills and talents of the jobholder. Work that stretches one’s skills and abilities should be experienced as more meaningful than work that is simple and routine in nature. Task identity is the degree to which the job requires completion of a whole and identifiable piece of work—doing a job from beginning to end with a visible outcome. Putting together an entire product or providing a complete unit of service is inherently more meaningful than being responsible for only a small part of the work. Finally, task significance is the degree to which the work has a substantial impact on the lives of other people, whether in the immediate organization or in the external environment. An activity that is consequential for the psychological or physical well-being of others should be experienced as more meaningful than work that makes little difference to anyone else.

Experienced responsibility is shaped by the amount of autonomy the job provides. Autonomy is the degree to which the work is structured to provide the jobholder with substantial freedom, independence, and discretion in scheduling the work and in determining the procedures to be used in carrying it out. Thus, as autonomy increases, the employee should feel more personal responsibility for successes and failures that occur on the job and should be more willing to be personally accountable for the outcomes of the work.

Knowledge of results is influenced by feedback from the job—that is, the degree to which carrying out job-specified work activities provides the jobholder with direct and clear information about the effectiveness of his or her performance. When the job provides the employee with information about how well he or she is performing (e.g., when a physician treats a patient and sees the patient get healthy) the knowledge of results derives directly from the work activities themselves.

The degree to which a job has high levels of the five characteristics described above, and therefore is likely to prompt favorable work outcomes, is
summarized by an index called the Motivating Potential Score (MPS). To produce all three of the psychological states, a job must have a high standing on one or more of the three characteristics that boost meaningfulness (i.e., skill variety, task identity, task significance) and be high on both autonomy and feedback as well. The MPS indicates the degree to which that is the case through the following formula: \( \text{MPS} = \frac{\text{Skill Variety} + \text{Task Identity} + \text{Task Significance}}{3} \times \text{Autonomy} \times \text{Feedback} \). Thus, a low score on either autonomy or feedback will substantially reduce a job’s MPS, since both experienced responsibility and knowledge of results must be present for work outcomes to be high, and those two job characteristics produce the corresponding two psychological states. Conversely, a low score on one of the three job characteristics expected to shape experienced meaningfulness may not necessarily compromise a job’s MPS, since a low score on any one of those three attributes can be compensated for by high scores on the others.

As shown in Figure 1, the theory identifies three individual conditions (i.e., knowledge and skill, growth need strength, and context satisfactions) as moderators of the impact of the job characteristics on an employee’s responses. Jobholders are expected to respond most positively to jobs high in motivating potential when they score high on all three of these individual conditions.

Knowledge and skill refers to the extent to which the employee has the skills and competencies necessary to complete a job high on the five job characteristics. When individuals have such skills, they have the potential to successfully complete high-MPS jobs and, therefore, to reap the psychological rewards provided by those jobs. By contrast, when employees are missing these skills and competencies they are likely to experience a good deal of frustration on high-MPS jobs, precisely because these jobs offer psychological rewards for effective performance, but the employees are unable to perform well enough to obtain these rewards.

Growth need strength is the strength of an individual’s need for personal accomplishment, learning, and development at work. The theory posits that jobholders who have strong growth needs value the opportunities for accomplishment and self-direction provided by jobs high on the five core characteristics and, as a result, respond positively to them. Low GNS jobholders, by contrast, place less value on the opportunities provided by high MPS jobs and therefore should react less positively to them.

Context satisfactions refers to the extent to which employees are satisfied with major elements of the work context (e.g., pay, job security, coworkers, and managers). JCT posits that when individuals are satisfied with the work context, they are likely to focus their attentions on the properties of a job high in motivating potential and, therefore, appreciate and respond positively to those properties. However, dissatisfaction with the context may distract employees’ attention from the work itself and orient their energy instead toward coping with the experienced problems.

Importance

Research Support

More than 200 studies have tested all or portions of JCT. Many of these studies have used the Job Diagnostic Survey (JDS), a research instrument that assesses most of the constructs included in the theory. Extensive reviews of this early research suggest the following conclusions.

Previous research suggests that the five job characteristics have generally positive effects on each of the work outcomes included in the theory. Specifically, results indicate that employees exhibit high work performance and experience high internal motivation, high job satisfaction, and high growth satisfaction when they work on jobs characterized by high levels of autonomy, skill variety, task identity, task significance, and job-based feedback. Moreover, results of early research provide general support for the proposed mediating effects of the psychological states of experienced meaningfulness, experienced responsibility, and knowledge of results. That is, the presence of the five job characteristics increases the experience of the three psychological states as specified by JCT, which then positively influence the jobholder’s work outcomes. Recent reviews have also concluded that a single psychological state—experienced meaningfulness—is quite effective in explaining the effects of all five core job characteristics on the work outcomes. That is, each of the five core properties was found to enhance the extent to which the employee experiences the work as meaningful, which then contributes to the work outcomes included in JCT.

Although research supports many of the basic tenets of JCT, other parts of the theory have received
relatively little research support. One of these involves the summary MPS index. Previous studies suggest that the MPS index is not more predictive of the work outcomes included in the theory than a simpler index computed by simply adding up scores on the five core job characteristics. Although the MPS index does make conceptual sense, it is likely that these weak results are a function of the psychometric properties of the JDS, which do not allow for the multiplication of variables specified in the formula for the MPS.

The results involving the three proposed moderators were also not completely supportive of the arguments in JCT. First, no studies directly tested the moderating effects of knowledge and skill, so it is unclear if individuals’ competencies play a role in how they respond to the five job characteristics. The context satisfactions moderator did receive research attention, but the results of these studies were mixed, and it is not clear that employees respond differently to the job characteristics if they are more or less satisfied with the work context. Finally, reviews of the literature concluded that GNS had little impact on the effects of the job characteristics on the internal motivation and satisfaction outcomes. However, there was some evidence to suggest that employees with high GNS exhibited higher performance on jobs high in motivating potential than did jobholders with relatively low GNS scores.

Implications for Practice

Despite the mixed support for JCT, the theory has a number of implications for the design of jobs in organizations. Specifically, results of previous investigations suggest that improving the standing of the five job characteristics should result in significant improvements in jobholders’ work performance, internal motivation, and job satisfaction. There is little evidence to suggest that employees react negatively to these characteristics—even when they are present at very high levels. Thus, applying work redesign practices that have been shown to enhance the job characteristics should have generally positive consequences for the employee and the organization. For example, providing each employee with a larger module of work should boost the skill variety and task identity characteristics. Putting the employee in direct contact with his or her clients and giving the employee continuing responsibility for managing those relationships should enhance the characteristics of autonomy, skill variety, and feedback. And changes in these job characteristics via the redesign practices just described should foster significant improvements in the psychological states and outcomes included in the theory. Moreover, changes in these job characteristics should result in even higher levels of work performance among employees with relatively high GNS.

See also Personal Engagement (at Work) Model; Scientific Management; Sociotechnical Theory; Total Quality Management; Two-Factor Theory (and Job Enrichment)

Further Readings


JOB DEMANDS–RESOURCES MODEL

Do you know that feeling of tension just before you start a presentation in front of a group? Although your dry mouth and clammy hands feel unpleasant, the tension is very functional. It makes you very
concentrated so that you formulate precisely and to the point and your mind does not wander during your talk. However, if the tension becomes chronic and one is confronted with high job demands every day, the functional tension may transform into dysfunctional, chronic stress. In this entry, the focus is on the causes and consequences of organizational stress. Stress is often discussed as an individual-level phenomenon. However, since employees usually work on collaborative goals, they often work in teams of individuals who are exposed to the same work characteristics. This means that we can use team reports of job characteristics and strain to identify the common causes of strain. This entry presents the job demands–resources model as an overall framework to understand organizational stress.

Fundamentals

The Concept of Organizational Stress

Organizational stress is an umbrella term that for some people refers to environmental stressors and, for others, to subjectively experienced strain; yet others use the term stress to refer to the consequence of strain. For reasons of clarity, it is important to distinguish between possible causes, consequences, and the phenomenon of strain itself. Generally, scholars use the term job demands to refer to possible job-related causes of negative experiences, which can be labeled “job strain.” Job demands that are a particular hindrance, such as role ambiguity, role conflicts, and job insecurity, are important causes of strain? Possible consequences of job strain are task-related errors, unsafe work behaviors, and sickness absenteeism. The experience of job strain can be expressed, for example, in the form of fatigue, subjective health complaints, or burnout. Burnout is an often-studied form of prolonged job strain characterized by chronic fatigue and a negative, cynical attitude toward work.

It should be noted that job demands are usually assessed by asking employees for their subjective evaluations of the workload, contacts with clients, and so on. However, in addition to these subjective job demands, researchers have developed techniques to assess job demands more objectively. For example, objective indicators of work pressure could be external observers’ assessments of work pressure, the number of units processed per hour, or the number of clients served on a typical workday. According to the Michigan model, employees need to interpret the objective job demands in order to report subjective job demands. The model proposes that personality may influence the link between objective and subjective job demands, because stable personalities (i.e., those who are emotionally stable, extraverted, and conscientious) would be better able to cope with the demands.

The Job Demands–Resources Model

The job demands–resources (JD–R) model was developed in Europe to understand the causes and consequences of burnout and its opposite—work engagement. Why do some employees lose their energy and become cynical about the content of their work, whereas others remain energetic and enthusiastic? According to the JD–R model, the answer can be found in the work environment. A first assumption of the model is that whereas every occupation may have its own specific risk factors associated with job stress, these factors can be classified in two general categories (i.e., job demands and job resources), thus constituting an overarching model that may be applied to various occupational settings, irrespective of the particular demands and resources involved. Job demands refer to those physical, psychological, social, or organizational aspects of the job that require sustained physical and/or psychological (cognitive and emotional) effort or skills and are therefore associated with certain physiological and/or psychological costs. Examples are a high work pressure, demanding clients, and high mental job demands. Although job demands are not necessarily negative, they may turn into job stressors when meeting those demands requires high effort from which the employee fails to recover adequately.

Job resources refer to those physical, psychological, social, or organizational aspects of the job that either (a) are functional in achieving work goals; (b) reduce job demands and the associated physiological and psychological costs; (c) stimulate personal growth, learning, and development. Hence, resources are not only necessary to deal with job demands, but they also are important in their own right. People are motivated to protect and accumulate their resources because they satisfy their basic psychological needs of autonomy, relatedness, and competence. Most individuals want to experience control over what they do, show what they are good at, and share experiences with others. Job resources
can satisfy these needs. Job resources may be located at the macro, organizational level (e.g., pay, career opportunities, job security), the interpersonal level (e.g., supervisor and coworker support, team climate), the job level (e.g., role clarity, participation in decision making), and at the level of the task (e.g., skill variety, task identity, task significance, autonomy, performance feedback).

A second assumption of the JD–R model is that two different underlying psychological processes play a role in the development of job strain and motivation. The first is a process of health impairment, which suggests that badly designed jobs or chronic job demands (e.g., work overload, emotional demands) exhaust employees’ mental and physical resources and may therefore lead to the depletion of energy (i.e., a state of exhaustion) and to health problems. Individuals often use performance protection strategies under the influence of environmental demands (e.g., increased subjective effort) in order to prevent decrements in their task performance. Unfortunately, the long-term effect of such compensatory strategies may be a draining of individuals’ energy, eventually resulting in a breakdown. The second process proposed by the JD–R model is motivational in nature, whereby it is assumed that job resources have motivational potential and lead to high work engagement, low cynicism, and excellent performance. As follows from its definition, job resources may play either an intrinsic motivational role because they foster employees’ growth, learning, and development, or they may play an extrinsic motivational role because they are instrumental in achieving work goals.

Next to the suggested main effects of job demands and resources, a third proposition of the JD–R model is that the interaction between job demands and job resources is important for the development of organizational stress. Inherent in the definition of job resources is the assumption that job resources may buffer the impact of job demands on job strain, including burnout. The buffering role of job resources is consistent with previously formulated job stress models, such as the demand-control model (DCM) and the effort-reward imbalance model (ERIM). Whereas the DCM states that control over the execution of tasks (autonomy) may buffer the impact of work overload on job stress and whereas the ERIM states that rewards may buffer the unfavorable effects of effort expedition, the JD–R model expands these views and states that many different types of job demands and job resources may interact in predicting job strain. Which job demands and resources play a role in a certain work environment depends on the specific job characteristics that prevail.

A fourth proposition of the JD–R model is that job resources are particularly motivating when job demands are high. Research has indeed shown that job resources are most beneficial in maintaining work engagement under conditions of high (challenge) job demands. For example, skill utilization, learning opportunities, and autonomy are most predictive of engagement when job demands (e.g., workload and emotional demands) are high. This indicates that resources become most salient under demanding conditions. Put differently, job demands become challenges when employees have sufficient job resources available. However, in contrast, job demands become stressors when job resources are lacking.

A fifth and final assumption is that employees are not passive actors but instead may actively change their work environment. The JD–R model proposes that employees may actively change the content or design of their jobs by choosing certain tasks, negotiating different job content, or by assigning meaning to their tasks or jobs. This process of employees shaping their jobs has been referred to as job crafting. Vigorous, engaged workers are most likely to show job-crafting behaviors. They are able to mobilize their job resources, for example, by asking for feedback about their job performance or by asking for help from others (colleagues, supervisor). In addition, engaged workers are inclined to increase their challenge job demands. As a consequence of these job-crafting behaviors, employees may be able to increase their person–job fit and to experience enhanced meaning in their work—thus to prevent job stress and to build their own work engagement. Unfortunately, stressed workers are less likely to craft their work environment. They may get trapped in a downward spiral of job stressors and strain.

**Importance**

It is important for organizations to prevent job strain and to facilitate work engagement because job stress has been found to lead to impaired functioning on the job. For example, meta-analytic research
on the link between burnout and objective performance has shown that burnout leads to impaired in-role performance, reduced organizational citizenship behaviors, and reduced client satisfaction. This means that employees who feel exhausted by their work and who are cynical are less likely to attain organizational goals, to help their colleagues, and to satisfy their clients’ needs. In contrast, research has shown that work engagement is predictive of in-role and extra-role performance, improved financial results, and increased client satisfaction.

Whereas engaged workers are active and enthusiastic, stressed workers become passive and they experience negative emotions. The experience of strain seems to impair employees’ ability to perform well. People who are burned out by their work have lost their energetic resources to cope with the job demands. In addition, stress undermines openness to experience, and thus burned-out employees do not acquire new skills or knowledge. This reduces opportunities to be creative and find solutions for work-related problems. Organizations should therefore try to prevent organizational stress. The JD–R model can be used to do this in a systematic way. For example, human resources managers could use JD–R questionnaires to measure employees’ levels of job demands, resources, and strain. Teams or departments scoring unfavorable on the JD–R questionnaire would need attention: Are certain job demands too high? Do all the teams have sufficient job resources? Interventions could be implemented and a new round of assessment could ascertain whether the work environment has improved and organizational stress has been reduced.

Arnold B. Bakker

See also Equity Theory; Goal-Setting Theory; High-Performance Work Systems; Human Resource Management Strategies; Job Characteristics Theory; Organizational Commitment Theory

Further Readings


KAIZEN AND CONTINUOUS IMPROVEMENT

Since the 1980s when the “Japanese miracle” of near-perfect quality entered global awareness, the concept of kaizen has grown to be part of the international vocabulary of management theory. Kaizen represents a vision of an ideal state—improvement everywhere to achieve lowest cost, highest quality, and best service to the customer. As organizations throughout the world have experimented with various incarnations of programs to achieve kaizen, such as business process reengineering, total quality management, six sigma, lean management, and theory of constraints, there has been a shift in thinking from viewing kaizen as a toolkit to transform processes, to viewing kaizen as the essence of a culture focused on striving for excellence across the enterprise. These real-world experiments have led to basic insights into a broad range of issues in management theory, including the nature of bureaucracy, human motivation, how to train and develop people, the skills and roles of leadership, knowledge management, and the relationship between strategy and operational excellence.

Fundamentals

Kaizen means change for the better. Continuous improvement taken literally means everything is getting better all the time. Sometimes a distinction is made between kaizen, which is interpreted as small incremental changes, and kaikaku, which refers to big change. This is not necessary since “change for the better” can be big or small. Henry Ford once said, “Nothing is particularly hard if you divide it into small jobs,” and if you look closely at big game-changing innovations, they have been achieved through many small steps, some dead-ends, and others’ progress toward the vision.

Kaizen is a Japanese word and is often associated with Japanese manufacturing, particularly the Toyota production system (TPS). The book that first popularized the core concepts of TPS was The Machine That Changed the World. This book introduced the phrase lean production as a new management paradigm as significant as the shift from craft to mass production. Lean production spread as programs first in industry and then into the service sector and has taken on a life of its own with different interpretations by different authors, consulting groups, and organizations. One simple classification is into two categories: tool-oriented lean (mechanistic) and people-oriented lean (organic). The original TPS in Toyota is the latter, and the tools and lean processes highlighted problems that could shut down production, driving active problem solving. The role of people was to think creatively about how to solve those problems, but people had to be developed to have the skills for solving the problems, which Toyota invested in deeply, mostly through on-the-job development with skilled coaches (called sensei).

As Toyota globalized, it became clear that there was a need to take the philosophy underlying TPS and make what Japanese members learned on the job explicit so it could be taught in the hundreds of companies in which Toyota had operations and sales
offices. The resulting document, The Toyota Way 2001, defined two pillars that represent the core philosophy of the company: respect for people and continuous improvement. The underlying principles, more general than manufacturing, have become an aspiration for organizations throughout the world in all sectors, including industry, government, education, defense, health care, mining, and financial services. A related concept is lean management, which focuses on eliminating waste from processes. Unfortunately, the concept of lean is often misinterpreted as a program led by experts to reduce cost through waste reduction. In reality, lean thinking is virtually synonymous with continuous improvement, or kaizen, which requires engaged people, skilled in a discipline problem-solving methodology.

The underlying theory of problem solving evolved from Walter A. Shewhart’s concept, taught to Toyota by W. Edwards Deming, which then evolved in Japan into what we now call the plan-do-check-act (PDCA) cycle. Too often, problems are solved by assuming it is clear what the problem is and jumping to solutions with very little follow-up to learn what happened. Daniel Kahneman calls this “fast thinking,” as opposed to slow thinking, which takes much more mental effort. In fast thinking, we jump to the first conclusion that comes to mind without thinking deeply or analytically about the problem. As a general principle, he summarizes many cognitive psychology experiments with the conclusion that people seek to minimize mental effort, thus preferring fast thinking. PDCA requires a careful definition of the real problem and then driving to the root cause by deep (slow) thinking and careful study. Only then are possible countermeasures defined, one selected and tried (do), and then the results studied (check) with further action (act) based on the findings.

Mike Rother introduces the concept of kata to emphasize that the process of improvement requires a specific skill set and way of thinking that must be learned. Kata, a Japanese term often used in martial arts, is a deeply learned routine. He lays out in detail the “improvement kata” that drives continuous improvement—that is, a set of routines that need to be repeatedly practiced, with an expert coach as a guide, until they become second nature and the focus can be on the content of the problem instead of on the process steps of problem solving. In essence, one must work hard and practice in a determined way, and it helps to have a coach for support and motivation, to overcome the tendency toward fast thinking.

Routines bring to mind standardization, which is often thought to stifle creativity. But Adler, studying the TPS at New United Motor Manufacturing (NUMMI), the joint venture between Toyota and General Motors in California, observed an organization filled with bureaucratic standards that were being dynamically adjusted by work teams through kaizen. This caused him to question the very nature of bureaucracy and the simple distinction in organizational theory between mechanistic and organic organizations. He concluded there were different types of bureaucracies. He distinguished between coercive bureaucracy, in which standards are developed by experts and imposed top-down through a command-and-control structure, and enabling bureaucracy, in which standards are best-practice templates owned and improved on by work groups throughout the organization. Enabling bureaucracy actually encourages continuous improvement. In fact, as per Cole, without standardization, individuals learn and may improve what they do, but the improvements are not shared and institutionalized, so organizational learning is not possible.

Let’s consider two cases discussed by Jeffrey Liker and James Franz that tried to develop continuous improvement cultures, one through coercive bureaucracy and the other through enabling bureaucracy. A U.S. shipyard that repairs and overhauls submarines and aircraft carriers embarked on a program that taught by establishing a “lean six-sigma” academy. Graduates earned “black belts” and were sent into the shipyard to do projects. While each project showed improvements to the bottom line, there was little change in the culture of the shipyards, little buy-in from people doing the work, and the well-documented changes were only superficially implemented, generally degrading over time—the opposite of continuous improvement. In fact the approach to change reflected the coercive bureaucracy that was at the core of the shipyard rather than changing the culture. A smaller shipyard that had a more team-centered, enabling culture started with deep changes in pilot areas, intensively coaching teams in those areas until they were capable of kaizen, then spread the learning work group by work group slowly and patiently and had far more sustainable results with evidence of a good deal of learning. This eventually spread across the yard, and change was deep.
The irony is that over time, due to lack of consistent leadership (leaders were frequently rotated), neither program was able to sustain the journey to continuous improvement.

These case studies illustrate two key points. First, it is far too easy to confuse continuous improvement with a toolkit that can be mechanistically applied to processes presumed to be static. In fact, processes are dynamic and naturally variable and require continuous improvement even to maintain a steady state and even more effort to improve in an innovative way. Second, continuous improvement is 100% dependent on people, and people will not push themselves to keep improving without strong leadership coaching and support. According to Liker and Gary L. Convis, the leaders themselves need to be the first to transform themselves to become skilled at kaizen so they can then teach others. Like any life pursuit, such as sports, art, music, or cooking, continuous improvement requires a drive for excellence and continuous practice, and the ideal is always just out of reach.

Jeffrey K. Liker

See also High-Performance Work Systems; Lean Enterprise; Learning Organization; Level 5 Leadership; Organic and Mechanistic Forms; Quality Circles; Sociotechnical Theory; Total Quality Management

Further Readings

Knowledge Workers

The rise of knowledge workers, well-trained and specialized professionals, has altered the nature of organizations and their management in fundamental ways. These workers make their living by gaining and using diverse, often specialized knowledge. As such, they have been interwoven with every major organizational function, such as research and development, strategy making, new product design, supply chain analysis, market analysis, and marketing, among others. Knowledge workers have also become influential in production planning and control, logistics, and other traditional manufacturing functions. Peter Drucker was among the very first to note the emergence and growing role of these workers and to systematically examine their effects on companies and their decisions. Drucker concentrated his analyses on the advent of modern information technology as a powerful force that shapes what, how, and when organizations do things. This led Drucker to predict that the growth of these technologies will redefine and even reduce the number of specialized technocrats (knowledge workers). Drucker, one of the most astute observers of management organizations, did not get it entirely right. As technology has become more and more sophisticated and diffused, hordes of knowledge workers have become dominant in today’s economy. This entry reviews the fundamental arguments, critiques, and applications of his ideas.

Fundamentals
What Do Knowledge Workers Have in Common?

Despite their varied interests and roles, knowledge workers have several things in common. They tend to be specialists, who have developed a considerable mastery of their respective disciplines through professional training and sometimes practical experiences. As a result, their “disciplinary” focus often shapes their views of key issues confronting their
industries, companies, or even their jobs. This is reinforced by the fact they also tend to devote quite a bit of time and energy in acquiring, processing, and using knowledge. Their interpretation of this knowledge is often guided by their prior education and training.

These professional workers also control vast amounts of knowledge that gives them the raw material with which to work through problems, giving them a growing sense of control; some of that knowledge is tacit and therefore cannot be shared easily with others. Yet often this tacit knowledge is the primary source of innovations that can create value. This knowledge is a key source of creativity that results in new products, systems, and processes. It is also a source of new forms of organizing and managing workflow and other employees. In addition, this knowledge makes it easier to acquire new technical skills that make today’s organizations more efficient, responsive, and productive. Knowledge workers play an important role in coordinating the various phases of resource assembly, production, marketing, and distribution. They increasingly do so on a global basis as they work for global companies, multinationals, or even local companies that use global supply chains.

Knowledge networks, where discoveries are made, are also global and access to them provides the foundation for innovation of all forms. Knowledge workers use their connections and professional associations to develop links to these knowledge networks, acquire knowledge, and transform it into profitable goods and services. One of the key roles that knowledge workers play in this context is to develop the firm’s absorptive capacity—the ability to recognize, value, import, process, assimilate, and use externally generated knowledge in its own operations. Knowledge workers have the expertise and understanding needed to target, import, and transform this knowledge into sources of revenues and profitability. The relatedness of the knowledge these professional employees have helps not only in gaining externally generated knowledge but also in making it possible to use this knowledge productively. The presence of these knowledge employees has been fundamental for the success of the “open innovation” movement, in which companies use discoveries and innovations made by other companies to create new businesses and protect their existing markets.

**Principles of Knowledge Worker Productivity**

Drucker postulated six principles of knowledge worker productivity that he believed stood in stark contrast to those for manual worker productivity as discussed by Frederick Taylor and others. Knowledge worker productivity demands that (1) because in knowledge work the task does not program the worker but instead the worker defines the task, it is imperative to first ask the question, “What is the task?” to focus attention and effort; (2) the individual knowledge workers themselves be given the autonomy and responsibility for making decisions regarding their own productivity; (3) work is defined to incorporate continuous innovation and this is built into the knowledge worker’s job; (4) work is defined to incorporate continuous learning and teaching on the part of the knowledge worker and this is similarly built into the knowledge worker’s job; (5) quality of work is held at least as important as quantity in assessing knowledge worker productivity—quality is the “essence of the output”; and (6) knowledge workers are treated as an asset—more importantly, the main asset of an organization or institution—rather than simply a cost. This suggests that they be invested in, attracted and motivated, educated and developed, and managed appropriately.

**Fundamental Management Changes**

The rise of knowledge workers among the ranks of organizational employees has had a profound, even pervasive, effect on how companies are designed and managed. Work organizations are no longer places where people only make a living but also environments in which they fulfill their growth and “self-actualization” needs. Given that knowledge workers have different needs, organizational designs have to accommodate this diversity through flexibility in compensation, working hours, task assignments, and responsibilities associated with their jobs. Jobs have been redesigned to enhance variety, their motivational potential, and social relevance and impact. The intent was to make jobs more “meaningful” for knowledge workers to capitalize on their growth needs. Knowledge workers value their independence and professional autonomy, a factor that inspired efforts to redesign companies to ensure participatory management practices.
The fact that knowledge workers are trained professionals has led many to view them as a key source of ideas for innovation and entrepreneurship; these ideas often trickle up to senior managers who are no longer viewed as the sole or mainspring of change in the organizations. Ideas and opportunities could be found anywhere in the organization. Knowledge workers also value analysis and use of scientific methods in decision making, a factor that has increased efforts aimed at gathering, analyzing, and interpreting vast amounts of data to guide and shape the firm’s decisions.

Knowledge workers value their professional identification, the connection to their profession, and its dominant values and views. Their loyalty to their companies, however, may not be enduring because these knowledge workers move from one company to another to practice their craft. Knowledge workers tend to be cosmopolitan in their outlook, connecting with different groups with different sources of ideas, and experimenting with new things. This cosmopolitan outlook helps link knowledge workers to colleagues in other companies or even professional groups, within and across industries, often transcending geographic distances.

The mobility of knowledge workers creates opportunities for networking as well as forming relationships that transcend organizational boundaries. These networks have become fertile grounds for fermenting, exploring, testing, and refining ideas with the benefit of other members who are bonded to each other by shared professional interests. These networks are increasingly global, transmitting different views and divergent ways of thinking about issues of interest. These ideas and discoveries could be helpful to employers. Alternatively, knowledge workers might opt to become entrepreneurs by creating companies of their own, using the connections and resources their networks make available to them. Some of these newly born companies go international from their inception to capitalize on the supply of knowledge workers, resources, and opportunities that cross borders.

A related but different role that knowledge workers’ professional identification plays is community of practice. These communities develop around a common issue (e.g., solving a long-standing set of mathematical equations, developing a complicated software program, or diagnosing a rare medical condition). Members of the community share their expertise in solving the issue at hand, knowing well that should they encounter a problem, other members of the community will come to their aid. These communities practice intellectually, interpersonally, and emotionally and engage their members by giving them opportunities to bond, share, learn, and grow.

Importance

Leading Knowledge Workers to Manage Intellectual Capital

The rise of knowledge workers has given birth to a large industry that specializes in connecting and keeping these professionals engaged and current. Numerous professional organizations have come into existence to organize meetings for specialized professionals to share their intellectual interests, research findings, network, and stay abreast of developments in their respective fields as well other fields. Training companies have also become widespread, offering specialized advanced courses and programs for interested knowledge workers. Colleges and universities have also expanded their traditional course offerings to accommodate the growing needs of this expanding population offering degree and nondegree programs. Companies have also invested a great deal in training their employees in order to upgrade their skills and keep them current. Companies have come to view their intellectual capital to be among the most important, valuable, and enduring sources of competitive advantage.

If knowledge is the mainspring of creativity and innovation in contemporary organizations, then managing knowledge workers becomes a major priority. It is no longer sufficient to develop work environments that promote learning to cultivate what knowledge workers know. Management needs to give greater attention to effective ways of motivating these workers and understating their unique needs. This motivation bonds these knowledge workers to their employers. It also stimulates their creativity and even encourages them to take the risks associated with innovation.

Work often determines the identity of these employees, and management needs to design work assignments to capitalize on and reinforce this need. Knowledge workers thrive on doing progressively complex as well as intellectually and organizationally challenging tasks. Therefore, job variety and mobility within the company are essential tools for motivating these knowledge workers. Providing
room for exploration and experimentation could also be beneficial to these employees and the companies for which they work. In fact, some companies have learned to give these employees time during their formal work hours to explore projects of interest. While some of these projects may fail, they offer insights into what works and does not work. When they succeed, some of these projects are integrated into the company's overall strategic initiatives.

Knowledge workers' skills and aptitudes form a major part of the firm's organizational memory. The collective knowledge embodied in professional workers provides the foundation for the breadth of that memory. The broader the memory, the more capable the firm is in doing very different things. This breadth allows the firm to cross boundaries and bring very different ideas, learn different skills, and recognize the multiplicity of potential applications. The higher the quality of knowledge these workers have, the deeper the firm's organizational memory. This depth is conducive to radical innovation and seeing connections among different strands of knowledge (which others may not comprehend). Creativity in managing the breadth and depth of this memory can serve very different organizational purposes, such as predicting technological discontinuities, changing competitive dynamics, emerging business models, entry of different types of competitors, and changing customer expectations and needs.

**Challenges in Leading Knowledge Workers**

Leading knowledge workers is a delicate but demanding act. These workers enjoy professional autonomy, have strong identification with their profession, gain power because of their expertise, and are well connected to others with and outside their companies. Leading knowledge workers requires attention to what they know, how well they know it, and what motivates them to know it by keeping abreast of developments in their fields.

Paradoxically, knowledge workers are loyal to and identify with their professions and peers—rather than their employers per se. They derive their satisfaction and identity from these connections, recognizing that they are likely to change employers several times over the course of their career. This paradox means that companies have to work hard to gain the benefits associated with their knowledge workers—for example, by training and developing them—while realizing that they are likely to move on and work elsewhere.

Another problem companies have encountered is that some knowledge workers learn different skills while working for them and then move to work for their competitors, causing trade secrets to leak quickly and thus disadvantage former employers. Other knowledge workers create their own companies that sometimes compete with their former employers' business. To be sure, some knowledge workers create businesses that complement and collaborate with their former employers, but others aggressively compete with the companies in which they have worked. Given the uncertainty that surrounds knowledge workers' future plans, some employers proceed to divide work into smaller units to which professional employees are assigned. Thus, these employees can become proficient in these narrowly defined tasks without full knowledge of the total process. This fragmentation of work reduces professional workers' motivation and job satisfaction. It could also deprive them of carrying out meaningful tasks, sharing knowledge, learn, and acquiring new skills. The fragmentation of job-related tasks can also complicate the integration needed to develop products, slows down task completion, and raises operational costs. It is also difficult to benefit from the *transactive memory* employees develop as they function as a team, where they "carry forward" those skills and the learning that has occurred in prior assignments.

In sum, knowledge workers populate almost every function in contemporary organizations, occupying central positions that give these workers resources, prestige, and power. Contrary to Drucker's prediction about the demise of knowledge workers, the proliferation of new technologies, especially information-based technologies, has redefined the roles they play. With their central positions throughout the hierarchy, knowledge workers have become the brain, heart, and soul of today's organizations.

*Shaker A. Zahra*

**See also** Empowerment; Human Capital Theory; Knowledge-Based View of the Firm; Open Innovation; Tacit Knowledge

**Further Readings**

Knowledge-Based View of the Firm

Many management scholars now view firms as repositories, integrators, developers, and exploiters of various types of knowledge. Proponents of the knowledge-based view (KBV), however, attach primacy to the tacit (inarticulable) capabilities that Penrose argued provide firms with “uniquely valuable” opportunities. The KBV’s central argument is that firm-wide tacit capabilities form the firm’s core and that cultivation and refinement of these capabilities determines current and future firm vitality. This entry briefly reviews the core elements of KBV perspectives and the relationships predicted among these elements, followed by a brief assessment of the KBV’s current impact.

Fundamentals

At the risk of oversimplification, the firm is assumed for the purposes of this entry to consist of two basic elements: (1) resources that encompass any tangible or intangible assets maintained and relatively easily exploitable by the firm and (2) inarticulable or “tacit” capabilities (knowledge) that guide a firm’s unique development, maintenance, and exploitation of resources. Learning is viewed somewhat pedantically as the acquisition and development of new and useful types of knowledge. KBV perspectives attempt to describe how capabilities guide a firm’s unique positioning—building, acquiring, and dispensing of firm resources—and how learning from experience promotes the modification and evolution of these capabilities. Note that although some disagreement exists about the appropriate level of analysis (i.e., knowledge exists within the individual vs. knowledge exists within the firm), here the focus is on the firm level because of its preponderance of support. Capabilities define a firm’s collective consciousness through which employees view the firm’s internal and external environments, and thereby bind and unify various firm entities. More than a mere collection of individuals or transactions, the firm as viewed by KBV theorists is a complex set of social interactions and unwritten rules that form its collective consciousness. These capabilities emerge from the familiarity employees have with one another and evolve from repeated employee interaction as well as attempts at resource positioning. Much like a hockey team whose play is refined and enhanced through continual practice, a firm builds cognizance of, and dexterity with, its resources through recurring exploitation efforts. Capabilities are self-reinforcing as the firm’s facility in using and adapting resources to current and future (i.e., expected) environments increases with continued use. Actions (e.g., takeovers, research and development, manufacturing) that first required contemplation at every step become more reflexive or “routinized” as experience mounts and, therefore, require the mobilization of fewer and fewer cognitive resources in subsequent use.

Capabilities also allow for parochial languages and interests (e.g., those of divisions, individual employees, etc.) to be integrated into the firm mind-set. However, KBV perspectives generally do not assume uniformity of knowledge across units or individuals but only that various within-firm knowledge bases are partly composed of firm-wide capabilities. This allows various units or individuals to specialize in specific tasks (thereby encouraging focus and refinement at the employee or unit level) while simultaneously promoting integration of idiosyncratic abilities and efforts with the rest of the firm. In essence, capabilities provide the common knowledge by which local specialized knowledge can be combined into the greater knowledge base. Accordingly, some have pointed to the distinction between “component” and “architectural” capabilities, where the former refers to local (e.g., division, function) task-related skills and the latter refers to the ability to effectively combine and integrate the component tasks and capabilities into a coherent package.

The collective mind-set further enhances efficiency and effectiveness by acting as a lens through which employees and managers rationalize internal and external environments. Although some learning
takes place in the minds of individuals, that which each individual learns is a function of what his or her fellow employees (perceive to) know and what is viewed as important by the firm as a whole. Accordingly, through the guidance of firm-wide capabilities, employees and managers distinguish between those resources that are ostensibly crucial to firm success and those that should be discarded. In this way, firm-wide capabilities economize on learning and minimize effects of the bounded rationality of individual employees.

Because a firm is limited in the amount of technologies that it can internally develop, KBV scholars have increasingly focused attention on how firm capabilities promote the absorption of external knowledge. Considerable research suggests that external knowledge acquisition is contingent, at least partly, on previous experience with similar knowledge. Prior experience prompts the firm’s development of schema, which can facilitate the rationalization and value assessment of externally available knowledge. When confronted with this knowledge, a firm attempts to identify similarities between novel knowledge and that which it currently possesses. Similarities and discontinuities are identified to provide a bridge to understand dissimilarities. In this way, a firm can engage in “reflection-in-action,” whereby prior knowledge acts as a basis on which to “fill in the holes” or transform novel knowledge inconsistencies into usable knowledge. The firm can also estimate the degree to which this knowledge contains potential value from the firm’s perspective. In other words, experience provides the basis on which new learning proceeds.

Organizational capability development, therefore, is somewhat localized as exploitation and search practices conform to historically determined paths. Firms tend to search (and will generally be more successful in searching) for productive opportunities in familiar areas or areas closely related to their expertise. The filtering-like action of organization capabilities, as well as the limits to which the firm’s reflection-in-action can allow rationalization of highly foreign technologies, necessitates this local character of search. Thus, KBV perspectives tend to be evolutionary where capability development affects and is affected by previous activity, and evolves with exploitation and search. This cycle leads to the firm’s in-depth understanding of resource and capability strengths and weaknesses. As suggested elsewhere in this encyclopedia, such evolutionary tendencies can also lead to inertial tendencies and firm value dissipation.

According to most KBV perspectives, the nature and duration of a firm’s competitive position (including competitive advantage) is based on these capabilities. First, as noted, capabilities unite distinct functions within the firm, and the degree to which “architectural” coordination is achieved determines howvaluably a firm can exploit, maintain, and build its specialized functions into a coherent organization. Integration of manufacturing, development, and marketing with other areas of the firm, for example, may determine if enough innovative product is produced to meet demand or if volume deficiencies allow competitors to successfully substitute for a firm’s product. Furthermore, future firm growth depends on the degree to which capabilities allow for and motivate the firm’s search for new and valuable ideas. To borrow from Joseph Schumpeter, innovation emerges from the novel recombination of existing technologies, information, and resources. The degree to which capabilities allow various firm entities to identify and establish new connections among one another or to find and absorb externally available technologies (e.g., through collaborations) will determine a firm’s future competitiveness. Firms continually confront changing environmental conditions and product obsolescence. The degree to which capabilities continually evolve to confront these threats and promote the exploration and exploitation of new opportunities determines a firm’s future vitality.

Future vitality is also a function of the tacitness of these capabilities. Although an employee possesses some degree of firm-wide knowledge, he or she cannot express it in words. Or to adapt phraseology from Michael Polanyi, an employee “knows more than s/he can tell.” Much like one’s inability to explain “gut” feelings, a firm possesses in-depth comprehension of resources but cannot effectively codify this knowledge. Again, from Polanyi, the knowledge of (a) the multitude of resources (i.e., experience with employees, fixed assets, cognizance of emotional ties among individuals), (b) the complex web of interactions among resources (e.g., laboratories promote research that in turn is furthered via development units), and (c) the “inexhaustible” possible future configurations among these resources precludes easy description of that
which guides firm operations. These three aspects of tacitness emerge from experience but preclude codification. Accordingly, a competitor's comprehension of a firm's capabilities requires the daunting if not impossible task of replicating the firm's path through history. Even in the unlikely case where a competitor could re-create such historical events, the competitor could not compress in a competitively feasible period (e.g., before further capability evolution by the imitated firm) the learning that the firm required decades to develop. Furthermore, since capabilities are rooted not in the mind of any single employee but rather exist within the social fabric of the firm, competitors theoretically could not acquire a firm's capabilities by hiring away firm employees. Even in the case where a competitor hires a significant portion of a firm's employees and management, some KBV theorists might contend that without re-creating the same context within the imitating firm as that which existed in the to-be-imitated firm (i.e., its portfolio of tangible and intangible resources as well as the network on interactions within which they exist), capabilities “acquired” may not conform to the “new” environment.

Thus, capabilities establish the perceived boundaries of the firm through cognitive and emotional (negative or positive) attachment. Nexus-of-contract perspectives (e.g., transaction costs, agency theories) view firms as efficient amalgamations of transactions. From a KBV perspective, however, this would be viewed as overly reductionist. In the same way that a person is more than a mere assemblage of lepton-boson-quark (i.e., subatomic particle) interactions (at least, according to some), defining a firm simply as an assemblage of its constituent parts or transactions fails to capture its true core. Indeed, if one were to reduce two individuals to a count of their various fundamental particles, the two would look remarkably similar. However, because of differences in the two individuals’ organizations of particles, their personalities may diverge considerably. “Emergent” properties resulting from the complex organization of constituent elements result in creation of capabilities that cannot be created otherwise. A firm, therefore, is not a “substitute” for market governance. Rather, it is a device that creates arenas for unique capability development. As such, organization charts, annual reports, analysts’ discussions, and so on provide highly naive and inaccurate depictions of the firm because these don’t account

for the complex set of interactions (and interactions of interactions) within the firm.

Importance

The KBV has achieved considerable academic support over the past two decades. Yet some find it largely indistinguishable from the resource-based view (RBV) of the firm and the research on dynamic capabilities. Indeed, apart from instances of pure “luck” (where a firm’s current competitive position is determined simply by chance), it is difficult to identify an instance where firm-wide knowledge does not determine competence. Knowledge certainly plays a part in establishing which resources to build and maintain and which to disregard and thus seems central to the message put forth in RBV work. Similarly, apart from level of analysis debates, there does not seem to be a clear demarcation between KBV research and the work on dynamic capabilities.

From an empirical standpoint, capabilities are difficult to operationalize and thus can create difficulties in testing certain aspects of the KBV. Tacit capabilities, by definition, cannot be identified and measured. They are also idiosyncratic to a firm, making techniques used to measure one firm’s capabilities (if that were somehow achieved) of limited applicability to measurement of other firm’s capabilities. Researchers have attempted to circumvent these difficulties by examining the observable outcomes of capability use. For example, many studies have used patent-derived statistics to assess the dexterity with which a firm’s capabilities promote new technologies. This can, to some extent, allow the testing of some KBV prescriptions. However, as implied earlier, a firm’s competitive position is not only determined by firm-wide knowledge but also by the complex network of resources that these capabilities guide. Empirical testing under such complexities requires careful consideration of such factors.

KBV perspectives can provide important insights for managers to use when facing critical challenges, opportunities, or both. Manufacturing scale, contracts, intellectual property, star scientists, and other resources are certainly key ingredients in the operations of the firm. But what primarily determines resource value within the firm are the capabilities that guide their use. Acquisition, creation, and
disposition of such resources without careful assessment of how such activities influence or can be influenced by tacit capabilities can be quite detrimental to firm value.

In a related vein, executives should remember that cultivating knowledge does not simply entail collecting and organizing information (i.e., that knowledge that is relatively freely and publicly available). Although some scholars view the role of the firm in a knowledge-based economy to be the collecting and analyzing of information, KBV proponents seem to suggest that a firm’s chief goal is the creation of unique and valuable knowledge. Information must be accessed. But how that information is used and integrated with the firm’s other resources will most likely determine the success of a firm’s strategy.

Managers should also remember that efficiency can be built within social organizations, even in industries that are not viewed as knowledge intensive. Companies that have considerable scale may not realize efficiencies if the social fabric of the firm creates frictions in knowledge transfer. Thus, returns to otherwise intelligent capital investment without social bonds may be fleeting.

Edward Levitas

Further Readings


See also Competitive Advantage; Dynamic Capabilities; Organizational Learning; Resource-Based View of the Firm; Tacit Knowledge
**Large Group Interventions**

**Fundamentals**

Large group interventions (LGIs) are a group of organization development (OD) methods for participative change in organizations and communities. These interventions bring representatives of the whole system together to discuss important issues and search for common ground to make decisions. The fundamental premise of these methods is that if you want people in organizations or communities to support a change initiative, you need to involve them in the discussion and decisions about the change—that is, to give people “voice.” When this happens, the theory is that they will be more likely to support and sustain the change. In this entry, we briefly describe the history and role of LGIs in OD practice and then present the methods organized by the outcomes they seek to achieve.

LGIs are catalysts in a change process that usually begins with a representative planning committee working with an internal or external OD consultant to manage the change process, including planning event(s) and implementation.

The label “large group” was coined because when the thinking about these methods developed in the 1980s, most organizational change events were managed by experienced facilitators. When Kathy Dannemiller worked with 500 Ford managers in one room, she went against prevailing practice. She managed the large group by creating many small “microcosm” groups. These self-managed groups were composed of about eight people each from a different part of the organization sitting around 5-foot round tables. As they engaged each other in discussions from their diverse perspectives, the whole system began to get to know and understand itself. To allow what was discussed in these small groups to be heard and reacted to by all present, she then used processes such as flip chart reports and sticky dot voting on important issues to make visual the perspectives in the room.

**Levels of OD Intervention**

OD practitioners select from five levels of interventions: individual, interpersonal, group, intergroup, and system/organization. LGIs are system-level methods specifically designed to get the whole system into the room. The system includes all the stakeholders affected by the issue under discussion. LGIs can involve from 30 people if the whole system is represented to as many as 4,500 when AmericaSpeaks gathered stakeholders to discuss what should happen to the World Trade Center site in New York City in 2002.

LGIs may involve people for a day (AmericaSpeaks; World Café), 2 or 3 days (Future Search; Open Space), or 4 days (The Conference Model; Appreciative Inquiry Summit). Under today’s time pressures, however, consultants who design these events are finding creative ways to shorten them or to stretch them out over weeks and even months.
Typology of Methods

Barbara Benedict Bunker and Billie T. Alban created a framework for organizing these methods by three types of outcomes that they aspire to achieve. The first category, Methods for Creating the Future, includes Future Search created by Marvin Weisbord and Sandra Janoff, the Search Conference developed by Fred Emery, Whole Scale Change invented by Dannemiller, and the Appreciative Inquiry Summit of David Cooperrider. These methods involve participants in changes they desire for the future, such as organizational strategy, new products or services, a reduction in community violence, or a new plan for an urban downtown. They are carefully structured using open systems planning as the theory base to lead participants to a concrete outcome. Most are time tested and can be expected to work if used appropriately by persons with some experience. Books are available for each of these methods with details about planning and running the intervention.

The second category is Methods for Work Design. This means examining work flow processes such as how patients are admitted to hospital or steps in a manufacturing process or applying for a bank loan. The people involved in these processes decide what is working and where problems occur. Then, they decide where the biggest payoff would be if the process were redesigned and propose changes. These changes may also require changes in the organization structure. This intervention is often a series of events or conferences that involve analysis, proposals, and decision making. The Conference Model created by Dick and Emily Axelrod, Whole Scale Work Design by Dannemiller, and Fast Cycle, Full Participation Work Design by Bill Pasmore and Al Fitz are examples of these methods. Participative Design by Fred and Merrelyn Emery is a more radical whole organization process that begins with education and then starts at the bottom of the organization with people designing their own work processes.

The third category, Methods for Whole System Participative Work, includes problem solving, discussion, and issue sensing. Open Space Technology created by Harrison Owen is a lightly structured method that allows people to come together to explore a wide range of issues they feel passionate about and create their own agenda for those discussions. The World Café by Juanita Brown is a very flexible method for engaging large groups in discussions. AmericaSpeaks by Carolyn Lukensmeyer creates structured town meetings on public policy issues. Work Out is a problem solving method developed by General Electric to gather stakeholders to analyze and resolve organizational problems within a 90-day time frame. Whole Scale Interactive Events by Dannemiller and Robert W. Jacobs are customized events designed for a specific purpose or outcome. SimuReal, created by Donald C. Klein, is a 1-day organization or community simulation that allows analysis of how things are working or creates a trial run for a new structure.

There are many descriptions of positive change outcomes using LGIs in the literature. However, it is difficult to demonstrate what caused the change when so many factors are involved. Only a few really solid research studies have investigated the processes in LGIs that lead to change. As a result, managers should get the advice of a consultant experienced in several of these methods when considering system wide engagement or selecting a LGI.

Barbara Benedict Bunker

See also Appreciative Inquiry Model; Empowerment; Organizational Development; Organizational Effectiveness; Participative Model of Decision Making; Process Theories of Change; Stakeholder Theory; Strategies for Change; Systems Theory of Organizations

Further Readings


Lead Users

Lead users are defined as members of a user population who display two key characteristics: First, they anticipate relatively high benefits from obtaining a solution to their needs—and may innovate as a result. Second, they are at the leading edge of important trends in a given marketplace—and thus experience specific needs far earlier than many users in that marketplace. These lead users are thus able to provide direct input into new product development tasks and have often prototyped new product solutions for themselves or for their communities. The “lead user method” is a managerial tool that allows companies to benefit from the creative potential of lead users. This entry provides a description of the lead user concept and shows how firms can benefit from harnessing the creative potential of this specific user group.

Fundamentals

In a number of studies from the late 1970s and 1980s onward, Eric von Hippel of MIT and several of his colleagues have observed that in very different industries—ranging from high-tech areas such as scientific instruments or thermoplastics to consumer markets such as outdoor equipment or skateboards—a huge percentage of the most important innovations were originally developed by the product users, not by the producing firms. In this context, the term user refers to the functional role of the institution and means that with respect to the product or service in question, the institution expects to derive benefits from its own use, not from selling the artifact. Therefore, “users” may be individual end users such as consumers in the beverages market or firms such as a high-tech manufacturer that uses a specific machine in its internal production process.

The finding that users can be very active in innovation seemed to contradict canonical market research experience from “voice of the customer” techniques, which holds that customers are at best capable of articulating unsatisfied present needs but are hardly able to provide information about future needs or even to provide ideas, concepts, and solutions to match those needs. This puzzle was resolved by the introduction of the lead user concept. Although it may be true that many customers are unable to provide active input in new product development tasks, there is a specific subgroup of users—the lead users—who are indeed creative and innovative. Lead users are able to provide direct input in new product development tasks and have often prototyped new product solutions for themselves (personally or for the company they work in) or for their communities.

The original theoretical thinking that led to the definition of “lead users” as having (a) high expected benefits from an innovation and (b) a position ahead of an important market trend was built on findings from two different streams of literature.

The “high expected benefits” component of the lead user definition was derived from research on the economics of innovation. Studies of industrial product and process innovations have shown that the greater the benefit an entity expects to obtain from a required innovation, the greater that entity’s investment in obtaining a solution will be. The benefits a user expects can be higher than those expected by a producer—for example, if the market is new and uncertain, if customer preferences are heterogeneous and change quickly in the market, or if the costs of innovation are lower for users than for manufacturers because of the “stickiness” of preference information. Component 1 of the lead user definition was therefore intended to serve as an indicator of innovation likelihood.

The second component of the lead user definition—namely, being “ahead of an important marketplace trend”—was included because of its expected impact on the commercial attractiveness of innovations developed by users residing at that location in a marketplace. Studies on the diffusion of innovations regularly show that some customers adopt innovations before others. Classic research on problem solving reveals that subjects are heavily constrained by their real-world experience through an effect known as functional fixedness: Those who use an object or see it used in a familiar way find it difficult to conceive of novel uses. Taken in combination, this led to the hypothesis that users who lead a trend would be best positioned to understand what many others will need later. After all, their present-day reality represents aspects of the future from the viewpoint of those with mainstream market needs. Component 2 of the lead user definition therefore indicates the commercial attractiveness of an innovation created by such a user.
Note that these two components of the lead user definition are conceptually independent. They stem from different areas of literature, and they serve different functions in lead user theory. Although they may be correlated in some cases, because a position ahead of the trend may well be accompanied by a high need for innovative solutions, this is not necessarily always the case. Therefore, the lead user construct can be described as consisting of two (formative) dimensions.

In many publications (including this entry), lead users are treated as a specific population or “species,” which in essence implies a binary concept. It is therefore important to keep in mind that the lead user construct is distributed over a continuum. There is no natural borderline that objectively distinguishes lead users or non-lead users and empirical assessments show that the distribution of lead “userness” follows a normal distribution and is not bimodal. For matters of stringency, it may hence be useful to talk about lead users; however, it would be more precise to talk about “individuals who display high levels of lead user characteristics.”

If lead user innovators are individuals, the question arises as to how they tackle the often-complex task of product development. An individual may well develop an idea, but developing the idea into a functioning prototype often requires diverse and specific knowledge that a lone individual is unlikely to possess. As a result, lead users often organize into communities to complement their capabilities, both in offline communities and in online communities such as open source networks or other forms of virtual institutions. This makes lead users easier to identify for firms seeking to benefit from their creative potential.

**The Lead User Method**

The lead user method proposed is a managerial heuristic that enables companies to search for commercially attractive user innovations and identify new business opportunities systematically. Usually, this method is described as comprising four phases.

**The start phase.** The start phase involves defining objectives (e.g., “finding an innovative solution to problem X” or “identifying an innovative product concept in market Y”) and setting up a cross-functional team. The latter is important to ensure that solutions found have sufficient fit with regard to strategy, research and development, and production capabilities and objectives. Also, broad anchorage reduces the risk of “not invented here” problems arising from the fact that solutions external to the company are being sought.

**Identification of major needs and trends.** In the second phase, the three to five most important trends are selected. This selection is usually based on interviews with experts, information from online forums, and literature research. Their function in the process is to narrow the problem and to allow a systematic search for lead users. The trends are those dimensions in which lead users are far ahead of the mass market.

**Identification of users leading those trends.** The third phase involves searching for lead users. Earlier studies usually employed a mass screening approach in which a large sample of users (typically from customer databases) was systematically filtered to identify those users who score highest in both lead user dimensions. More recently, lead user studies have increasingly turned to the pyramiding method for the purpose of lead user identification. In the latter approach, researchers start with a few users and ask them who has especially high needs and is leading the trend. Those users are then contacted and asked the same questions, and the process continues until a sufficient level of “lead userness” is achieved (which is usually the case after two or three steps). Recently, experiments have demonstrated the superior efficiency of the pyramiding search strategy compared with screening. Another advantage is the possibility of identifying individuals outside a pre-defined population or sample. Particularly, analogous markets—that is, markets that are different from the target market but characterized by the same trends—are valuable sources in the search for lead users. Consider the example of a lead user study that aims to find methods of preventing infections in clinical surgery. For this purpose, one important trend would be “methods for increased air purity.” Outside of leading hospitals, experts from the analogous field of chip production or CD production may also be able to provide valuable creative input. There are two reasons why it might make sense to ask such people: First, they might possess solution-related
knowledge that is worth transferring from the analogous field to the target field, and second, they are less likely to be blocked by existing solutions in the target field.

The lead user workshop. In the fourth and final phase, the lead users identified are invited to a 2 or 3-day workshop in which company members from different functional areas also participate. At these workshops, techniques such as brainstorming, group discussions, and others are used to capitalize on the creativity of the participants. It is important for the company to address the issue of intellectual property rights prior to the workshop and to ensure that the ideas and concepts generated can be commercialized without the risk of legal infringements. Often, this is unproblematic because in many cases it is economically profitable for a user to reveal their innovations freely (e.g., because they expect to profit from the use of the resulting product).

Importance
The lead user concept is helpful for understanding why some users successfully innovate. Its basic propositions—that lead users display a high likelihood of yielding innovations of high commercial appeal—have been confirmed in many academic studies, ranging from case studies and surveys to field experiments and practical applications. In a systematic natural experiment with particularly high validity, the lead user method was compared with other methods of idea generation (such as focus groups). The impressive finding is that, on average, the lead user method resulted in 8 times higher commercial success and provided the basis of a major new product line in all cases, whereas this was the case for only one of 42 non-lead-user projects. This suggests that it is not only a concept of high acceptance among academics but also has substantial practical value.

Recent studies also found that an individual’s lead userness with respect to a specific market is correlated with innovativeness, adoption behavior, and opinion leadership. Lead users buy new products earlier and more frequently than average users and influence many other potential buyers’ purchase decisions. This suggests that the lead user concept constitutes a valuable approach in other phases of the innovation process as well, such as new product forecasting, product and concept testing, product design, and the diffusion of innovations.

Nikolaus Franke

See also
Entrepreneurial Opportunities; Learning Organization; Open Innovation; Patterns of Innovation; Strategic Entrepreneurship; Technological Discontinuities; Technology and Complexity

Further Readings

LEADER–MEMBER EXCHANGE THEORY

Leader–member exchange (LMX) theory was introduced by George Graen and his colleagues during the mid-1970s. Initially referred to as the *vertical-dyad linkage model* of leadership, the theory contends that through a role-making process, some members of a leader’s work group become part of
the leader’s in-group, whereas others compose the out-group. In other words, the leader develops a high-quality relationship with some subordinates (members) and a low-quality relationship with others. The theory proposes that the quality of the exchange relationship between leader and member has a major impact on the attitudes and behaviors of both parties in the dyad. At the time when LMX theory was proposed, it provided an alternative perspective to existing leadership theories that assumed that leaders treat their work group members similarly, called an average leadership style approach. LMX theory is relevant to management because leading others is one of the most critical roles of a manager. Research based on LMX theory provides key insights for managers on how the leader-member relationship develops and how it impacts member, leader, and team outcomes. This entry describes the theory and early research findings, followed by a summary of studies on the antecedents and consequences of LMX. Recent research is discussed that has extended LMX beyond the dyad to the group-level.

**Fundamentals**

LMX theory is a relationship-based approach to leadership. Originally based on role theory, it was proposed that work in organizations is accomplished through roles negotiated between new members and their leaders. Through this negotiation and role development process, varied interpersonal exchange relationships develop between leaders and their members. A core concept of the theory is that leaders do not develop the same type of relationship with each follower; rather, relationship quality varies widely among members of a leader’s work group. Early research described this as resulting in an in-group and out-group within a work group, but subsequently, scholars suggested a continuum of relationship quality, ranging from low to high. More recent studies have applied social exchange theory to understanding leader-member exchanges and suggest that high-quality exchanges are based on social exchange and low-quality exchanges are based on economic exchange. Social exchanges are characterized by unspecified obligations, commitment, trust, and interpersonal attachment, whereas economic exchanges tend to be distinguished by specific, discrete, and tangible transactions.

The first stream of research testing LMX theory focused on determining whether leaders do, in fact, differentiate among members and develop varying exchange relationships. Results confirmed this key contention of the theory. The implication is that to understand leadership in the workplace, studies should focus on the dyadic level and the exchange relationship. Related to this issue is the question of why differentiated relationships develop within a work group. One response is that it occurs through the role negotiation and development process. Extending this explanation, scholars have suggested that leaders have limited time and social resources and thus are able to develop high-quality exchanges with only a subset of members. Although less is known about when and why differentiated exchange relationships develop within a work group, research supports the fact that this is a common phenomenon.

A second stream of research has investigated the consequences of LMX, primarily in terms of member outcomes. Many of these studies are based on social exchange theory and propose that high-quality exchange relationships are associated with desirable outcomes for members because these relationships are characterized by mutual respect, trust, liking, and reciprocal influence. Results of these studies as well as meta-analyses on the relation between LMX and member outcomes indicate that LMX is related to member behaviors, including turnover intentions, actual turnover, organizational citizenship behavior, and job performance. Among attitudinal outcomes, research indicates that LMX is significantly related to organizational commitment and supervisor, pay, and job satisfaction. Perceptions of the work environment have also been linked to LMX. Support has been found for a positive relationship between LMX and member perceptions of justice, empowerment, and engagement. Studies have found a negative association between LMX and member perceptions of politics, role ambiguity, and role conflict. Finally, LMX has been linked to a number of important career-related outcomes, including desirable assignments, promotions, and salary. Overall, the empirical research provides strong support for the critical role of LMX on member perceptions, attitudes, behaviors, and career outcomes.

A third area of research focused on the development of LMX. A limited number of studies addressed questions regarding when the quality of exchange becomes established and whether it is stable. Using
longitudinal research designs, these studies examined the development of exchange quality with new leader–member dyads over time. Several key findings emerged. One is that the quality of exchange tends to be fairly stable over time. A second finding is that the quality of exchange that exists within a dyadic relationship tends to be observable; that is, members of a work group tend to know which members have a high- versus low-quality exchange with the leader. A third important finding is that LMX relationships are established fairly quickly, with some studies indicating that this may occur in as little as a few weeks after working together.

Given the strong and consistent findings of the impact of LMX on member outcomes, a fourth stream of research focused on the antecedents of LMX. The primary purpose of the majority of studies on the antecedents of LMX was to identify member characteristics, leader characteristics, and interpersonal characteristics that affect quality of exchange. Similar to the outcomes of LMX, there have been a large number of studies on the antecedents of LMX, resulting in a comprehensive list of significant variables. The member characteristics with empirical support include member competence, personality traits (e.g., agreeableness, conscientiousness, extraversion, positive affectivity, and locus of control), and upward influence behavior. Findings on upward influence behavior suggest that members may proactively manage the exchange relationship that develops with their leader through influence behaviors such as ingratiation and other forms of impression management. Compared to studies on member characteristics, there have been far fewer studies on characteristics of the leader that influence LMX. Support has been found for leader personality (extraversion, agreeableness, and affectivity), leader reward behavior (contingent rewards), and leader expectations of followers. Interpersonal characteristics as predictors of LMX consider both leader and member characteristics jointly. For example, some studies have examined demographic similarity between the leader and member as a predictor of LMX. The findings have been mixed for demographic similarity; however, perceived similarity between leader and member has received support. Similarity in terms of personality traits has also been linked to LMX. Mutual liking and trust have been identified as strong predictors of LMX. In summary, a large number of antecedents of LMX have been identified in the literature. The findings indicate that LMX is not simply based on member competence or performance. Rather, a multitude of member, leader, and interpersonal characteristics predict LMX. Future research is needed to uncover the relative importance of the antecedents depending on the context, as well as how they may interact in predicting LMX.

Much of this review has described empirical research findings. From a theoretical perspective, LMX scholars have offered a multidimensional conceptualization of LMX. Relying on role theory and social exchange theory, four dimensions of LMX have been proposed: contribution, affect (liking), loyalty, and professional respect. A 12-item measure, labeled LMX-MDM, was developed through rigorous scale development procedures to capture the multidimensional nature of LMX. Support for LMX as a multidimensional construct has been found in a number of studies.

While the majority of LMX research has focused on the dyadic level of analysis, recent studies have explored LMX at the group level. When quality of exchange relationships varies widely within a group, this is referred to as high differentiation. The question is whether and how differentiation is related to group performance. Preliminary findings suggest that greater differentiation is associated with higher group performance under certain conditions, such as when task interdependence is high. Another area of research that examines LMX from a group context is studies on relative LMX, which occurs when members compare the quality of their own exchange relationship with the leader to coworkers’ exchange relationships with the leader. Results indicate that members’ attitudes and behaviors are impacted by not only the quality of their exchange with the leader but also the relative quality of their exchange compared to that of coworkers.

**Importance**

The key tenants of LMX theory have been strongly supported through hundreds of empirical studies. There is overwhelming evidence that leaders do develop different quality exchange relationships with members of their work groups. Rather than engaging in similar types of behaviors with all subordinates, leaders behave quite differently across subordinates, depending on the quality of the
Leader–Member Exchange Theory

exchange relationship. Research based on LMX theory indicates that the quality of the relationship that develops between a leader and subordinate impacts a number of important individual-level outcomes. The evidence is clear that members who have developed high-quality exchanges with their leaders experience many desirable and beneficial outcomes, such as greater support, desirable assignments, promotions, and so on. In summary, LMX theory is one of the most researched and supported theories of leadership.

In terms of its impact on management scholars, LMX has provided an alternative framework for investigating leadership. Contrary to other leadership theories that assume leaders engage in the same behaviors with all subordinates, LMX theory focused researchers’ attention on the dyadic relationship. A multidimensional measure of LMX was developed through rigorous scale development procedures, providing a valid measure of the construct. LMX scholars discovered that the quality of exchange of the dyadic relationship has a significant impact on outcomes that matter to organizations, such as employee commitment, performance, satisfaction, and turnover. Because of these findings, scholars examined predictors of LMX. Applying theories of interpersonal relationships from psychology and sociology, scholars uncovered member, leader, and interpersonal characteristics that influence LMX.

LMX theory has a number of implications for improving management practice. One major implication is that leaders need to consider the quality of the exchange relationship they have established with each subordinate. An exchange relationship that is of high quality and is based on mutual contribution, professional respect, loyalty, and affect is one that will be associated with beneficial outcomes for the member, leader, and organization. It is presumed that leaders who have developed a larger number of high-quality exchange relationships within the work group are more effective leaders. However, this contention needs further investigation in terms of whether this is achievable, given leaders’ limited time and resources. An assumption of LMX theory is that some low-quality exchanges within a work group are undesirable yet unavoidable. However, there may be circumstances when dyadic partners prefer a low-quality exchange relationship. This issue has received limited attention as well as how one might change an established low-quality relationship to one that is of high quality.

Another implication for management practice is that leaders and their work group members often have different views of their exchange relationship. That is, LMX studies have found a lack in agreement between member and leader perceptions of their exchange relationship. The implication for managers is that it is important to be aware of the employee’s view of the relationship because this affects the employee’s attitudes and behaviors and likely differs from the manager’s own perceptions of the relationship.

A final implication for management practice is that leader–member relationships develop through an informal, interpersonal process that creates a certain quality of exchange. Characteristics of the member and leader, as well as interpersonal characteristics, influence the development of the leader–member relationship. The relationship is not solely based on member performance or competence. Rather, a broad set of characteristics that either reduce or enhance affect, respect, loyalty, and contribution between the parties result in the quality of exchange. Both parties of the dyad have an impact on the exchange relationship, which develops early in the relationship and tends to be rather stable. The implication is that both the leader and the member need to be proactive and effectively manage the interpersonal exchange relationship so that it leads to desirable outcomes for both and for the organization overall.

Sandy J. Wayne

See also Differentiation and the Division of Labor; Leadership Practices; Role Theory; Social Exchange Theory; Transformational Theory of Leadership

Further Readings


Leadership Continuum Theory

Robert Tannenbaum and Warren H. Schmidt's leadership continuum theory (LCT) advances an autocratic-democratic continuum model illustrating the degree of power and influence managers assert during decision-making processes. The continuum ranges from manager centered (autocratic) to employee centered (democratic). It is possible for managers to exhibit a hybrid of these approaches. Developed more than 40 years ago, LCT remains relevant for describing, explaining, and predicting how power, authority, and freedom are negotiated and communicated during workplace decision-making processes. This entry outlines the fundamentals of LCT, including a description of the continuum of decision-making behaviors and the forces that can influence the adoption or avoidance of these actions. Implications of LCT are also discussed.

Fundamentals

LCT proposes that managerial behaviors exhibited during decision-making processes are connected by a theoretical spectrum. As Tannenbaum and Schmidt stated in their seminal 1973 publication,

Rather than offering a choice between two styles of leadership, democratic or authoritarian, [the LCT continuum] sanctions a range of behavior. . . . The concept does not dictate to managers but helps them to analyze their own behavior. The continuum permits them to review their behavior within a context of other alternatives, without any style being labeled right or wrong. (p. 166)

The behaviors on LCT’s continuum are related to (a) the degree of authority that managers choose to exert and (b) the amount of freedom managers grant nonmanagers when making workplace decisions. The following describes LCT’s continuum of behaviors, ranging from more autocratic (1) to more democratic (7).

1. The manager independently spots a problem, outlines a solution to the issue, and directs nonmanagers in a top-down fashion how to implement the predetermined action plan.

2. The manager independently identifies a problem and solution and attempts to minimize resistance by persuading nonmanagers to accept it as the best course of action (e.g., manager “sells” how the decision personally benefits the nonmanagers).

3. The manager identifies a problem and solution, then presents the tentative ideas to nonmanagers. After soliciting input from nonmanagers, the manager makes the final decision.

4. The manager identifies a problem and solution then presents the tentative ideas to nonmanagers. After soliciting input from nonmanagers, the manager makes the final decision.

5. The manager identifies a problem and solicits input from nonmanagers about the root cause
Leadership Continuum Theory
and potential solutions. After collecting nonmanagers’ feedback, the manager makes the final decision.

6. The manager identifies a problem and asks nonmanagers to decide how to resolve the issue given specified parameters.

7. Nonmanagers identify the problem, diagnose root cause, brainstorm potential solutions, and create an action plan for implementing the chosen course of action. Any parameters are imposed by organizational leaders or the environment.

Forces
LCT maintains that there are three forces that managers should consider when deciding which decision-making approach to use: (1) forces in managers, (2) forces in nonmanagers, and (3) forces in the situation.

Forces in managers. Managers’ perceptions of problems will inevitably be colored by various internal personality forces. For example, what are managers’ value systems regarding the act of involving key stakeholders in making decisions? To what degree do managers feel others are capable and motivated to make workplace decisions? How comfortable are managers with delegating decision-making responsibilities? And to what extent do managers possess tolerance for ambiguity associated with releasing control over decision-making responsibilities?

Forces in nonmanagers. When deciding which approach to use, managers should consider nonmanagers’ perceptions and behaviors surrounding decision-making processes. For example, how do nonmanagers expect managers should act? How much involvement in the decision making process do nonmanagers expect? LCT predicts that managers may extend greater freedom if nonmanagers

- possess the requisite expertise to resolve the problem, and
- expect to participate in making decisions.

Forces in the situation. Situational and environmental forces greatly influence how managers manage the decision-making process. These forces include time pressures, established organizational values and traditions, organizational size and locations, confidentiality issues, interpersonal/group dynamics, and other group variables such as group efficacy in decision making, cohesiveness, permissiveness, mutual acceptance, and commonality of purpose. The scope and essence of the problem will also dictate how much authority managers should delegate to nonmanagers.

Assessment
LCT exhibits a number of strengths and limitations. In terms of strengths, LCT’s continuum parsimoniously captures a broad range of approaches for managing decision-making processes. Second, LCT outlines a clear set of predictive conditions for when it is (in)appropriate to delegate greater responsibility to nonmanagers during decision-making opportunities. A third advantage is that LCT exhibits significant heuristic value, advancing a number of robust propositions and relationships ripe for academic testing.

LCT possesses some limitations. For example, LCT does not fully explain the full range of dynamics associated with all types of decision-making processes that occur in all types of organizations. Second, LCT fails to address the consequences and outcomes of the seven proposed leadership approaches and how they might be (in)effective with various types of decisions and organizational changes. Also, LCT fails to take into account how more nuanced human and organizational dynamics (e.g., social bonds or politics) can influence how decisions are really made in the workplace.

Despite such limitations, LCT continues to possess significant utilitarian value to the modern practitioner and organizational scholar. Originally published in the late 1950s, LCT was later reprinted in 1973 with an amendment from its authors. The authors’ retrospective commentary began to address some of the aforementioned limitations as well as underscored the persistent relevance of LCT to contemporary organizations. As stated in 1973 by Tannenbaum and Schmidt,
Today’s manager is more likely to deal with employees who resent being treated as subordinates, who may be highly critical of any organizational system, who expect to be consulted and to exert influence, and who often stand on the edge of alienation from the institution that needs their loyalty and commitment. In addition, [s]he is frequently confronted by a highly turbulent, unpredictable environment. (p. 166)

Travis L. Russ

See also Contingency Theory of Leadership; Decision-Making Styles; Participative Model of Decision Making; Situational Theory of Leadership; Strategic Decision Making; Theory X and Theory Y

Further Readings


LEADERSHIP PRACTICES

Our leadership framework has its origins in a research project we, the authors, began in 1983. We wanted to know what people did when they were at their “personal best” in leading others. We devised a Personal-Best Leadership Experience Survey consisting of 38-item open-ended questions. In our initial research, we collected and analyzed more than 550 of these surveys, each requiring 1 to 2 hours to complete. We reviewed an additional 80 short-form versions of the questionnaire and conducted 42 in-depth interviews. A thematic analysis of the leadership cases revealed clusters of behaviors that we identified as the Five Practices of Exemplary Leadership®. Our research is ongoing, and to date we’ve examined more than 5,000 personal-best leadership case studies and over 2 million leadership assessments from around the world. In this entry, we describe the Five Practices, give a brief comment about each from one of the leaders in our studies, present evidence that supports the impact of the Five Practices on constituent engagement and organizational performance, and suggest further reading about our work and that of other scholars and practitioners.

Fundamentals

While each leadership case is unique in its particulars, every story we’ve collected follows comparable patterns of action. In doing their best, leaders model the way, inspire a shared vision, challenge the process, enable others to act, and encourage the heart. These are the fundamentals of leadership. They remain as relevant today as they were when we first began our studies.

Model the Way

In talking about her personal-best leadership experience Olivia Lai, senior marketing associate at Moody’s Analytics (Hong Kong), said to us, “In order for me to become a leader it’s important that I first define my values and principles. If I don’t know what my own values are and determine expectations for myself, how can I set expectations for others?”

The first step on any leadership journey is to clarify values and give voice to those values. Eloquent speeches about common values, however, aren’t nearly enough. Actions are far more important than words when constituents want to determine how serious leaders really are about what they say. Exemplary leaders set the example through their daily actions, demonstrating deep commitment
to shared values. Casey Mork, manager of a new product development team, told us he learned this lesson early on: “You’ve got to walk the walk, not just talk the talk. Leaders are responsible for modeling behavior based on the values they communicate.” As Casey discovered, leading others is about living the values every day.

**Inspire a Shared Vision**

People described their personal-best leadership experiences as times when they imagined an exciting, highly attractive future for their organization. Nancy Zimpher, chancellor of the State University of New York, for example, said, “Vision trumps everything. Organizations are most effective when a well-articulated and ambitious vision of the future exists.” Exemplary leaders envision the future. In fact, our data show that focusing on the future is the attribute that most sets leaders apart from individual contributors.

Exemplary leaders also know that they can’t command commitment. They have to inspire it by enlisting others in a common vision. Just ask Buddy Blanton, a programs manager at Northrop Grumman Corporation. Buddy, wanting to know how he could be more effective at creating a shared vision, asked his team for feedback. They told him, “Help us, as a team, to understand how you got to your vision. We want to walk with you while you create the goals and vision so we all get to the end vision together.” This experience taught Buddy that by engaging others in finding common good, unity of purpose can be forged.

**Challenge the Process**

Challenge is the crucible for greatness. That’s precisely what Katherine Winkel, marketing operations manager at Seattle Genetics, observed when reflecting on her peers’ personal-best leadership experiences. “The similarity that most stuck out in my mind was that in each story the person described having to overcome uncertainty and fear in order to achieve their best.” Every single personal-best leadership case involved a change from the status quo. No one sat idly by waiting for fate to smile upon him or her.

And because innovative change comes more from listening than from telling, exemplary leaders are constantly looking outside themselves and their organization for the clues about what’s new or different, and what possibilities others are not seeing. They search for opportunities to innovate, grow, and improve.

Exemplary leaders also experiment and take risks. But sometimes people are afraid, and one way leaders deal with this reluctance is to approach change through incremental steps, small wins, and continuous learning. When Venkat Dokiparthi was asked to lead a technical development team in India he realized that “I needed to break down the task and make it simple for them to feel successful.” Small wins catapult leaders and their team forward and motivate them to move ahead even when times get tough.

**Enable Others to Act**

No leader ever got anything extraordinary done by working alone. It requires a team effort. That’s exactly what Eric Pan, regional head of the Chartered Institute of Management Accountants in South China, told us: “No matter how capable a leader is, he or she alone won’t be able to deliver a large project or program without the joint efforts and synergies that come from the team.” Leaders foster collaboration and build trust by engaging all those who must make the project work. When people are trusted and have more discretion, more authority, and more information, they’re much more likely to use their energies to produce extraordinary results.

Exemplary leaders also strengthen others so that constituents know they are capable of delivering on promises. They make constituents feel powerful and efficacious. Heidi Winkler, attorney-at-law with Pihl, a privately held construction company in Denmark, learned from her personal-best leadership experience “how much easier it is to achieve shared goals (or even make goals shared) when you involve people in the decisions to be made, trust them to handle the execution, and give them responsibilities and credit along the way.”

**Encourage the Heart**

In climbing to the top, people can become exhausted, frustrated, and disenchanted. They are often tempted to give up. Genuine acts of caring draw people forward. Exemplary leaders recognize contributions by showing appreciation for individual
excellence. The payoff is explained by Jason Cha, senior manufacturing engineer with Abbott Vacular: “This raises an individual’s commitment to excellence because his or her name is associated with a given project.”

Leaders also celebrate the values and victories. Celebrations and rituals, when done with authenticity and from the heart, build a strong sense of collective identity and community spirit that can carry a group through extraordinarily tough times.

**Importance**

These are the Five Practices of Exemplary Leadership that emerged from extensive research on what people actually do when they are leading others to greatness. And our research clearly shows that engaging in these practices makes a profoundly positive difference in people’s commitment and performance at work.

To assess the impact leader behavior has on engagement and performance, we’ve correlated responses from nearly 2 million people around the world on the Leadership Practices Inventory (LPI)—our 360-degree assessment instrument measuring how frequently leaders engage in the Five Practices—with work attitude and with demographic variables. These scales consist of 10 demographic questions ranging from age and gender to function, industry, and organizational size and another 10 questions about how respondents feel about their leaders and their workplaces.

The conclusion: Those leaders who more frequently use the Five Practices of Exemplary Leadership are considerably more effective than their counterparts who use them infrequently. Statistical analyses reveal that a leader’s behavior explains nearly 30% of constituents’ workplace engagement. Personal and organizational characteristics of constituents, on the other hand, explain less than 1% of constituents’ engagement in, commitment to, and pride in their workplaces. Workplace engagement and commitment is independent of who the constituents are (as related to factors such as age, gender, ethnicity, or education) and of their position, job, discipline, industry, nationality, or the country from which they come.

Many other scholars have documented how leaders who engage in the Five Practices are more effective than those who don’t, whether the context is inside or outside the United States, the public or private sector, or within schools, health care organizations, business firms, prisons, churches, and the like. For example, leaders who use the Five Practices more frequently than their counterparts achieve the following:

- Create higher-performing teams
- Generate increased sales and customer satisfaction levels
- Foster renewed loyalty and greater organizational commitment
- Enhance motivation and the willingness to work hard
- More successfully represent their units to upper management
- Facilitate high patient-satisfaction scores and more effectively meet family member needs
- Promote high degrees of involvement in schools
- Enlarge the size of their religious congregations
- Increase fundraising results and expand giving levels
- Extend the range of their agency’s services
- Reduce absenteeism, turnover, and dropout rates
- Positively influence recruitment rates

Over a 5-year period, the financial performance of organizations where senior leaders were identified by their constituents as strongly using the Five Practices was compared with those organizations whose leadership was significantly less engaged in the Five Practices. The bottom line? Net income growth was nearly 18 times higher and stock price growth nearly 3 times higher than their counterparts for those publicly traded organizations whose leadership strongly engaged in the Five Practices.

Although the Five Practices of Exemplary Leadership don’t completely explain why leaders and their organizations are successful—no model in existence can account for 100% of leader effectiveness—it’s very clear that engaging in the Five Practices makes a positive difference no matter who you are or where you are located. How you behave as a leader matters, and it matters a lot.

*James M. Kouzes and Barry Z. Posner*

See also Authentic Leadership; Cultural Values; High-Performing Teams; Level 5 Leadership; Positive Organizational Scholarship; Transformational Theory of Leadership; Trust
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Further Readings


**LEAN ENTERPRISE**

More than 20 years ago, Toyota became a symbol of business success with a new way to organize automobile manufacturing that became labeled *lean production*. Companies around the world, in many industries, sought to learn from the Toyota production system. Hundreds of books and scholarly papers were written to distill the essential principles and practices, including how work is organized, how human resources are developed and used, and how the system as a whole is managed. More recent studies of Toyota and other organizations have further highlighted the need to expand our understanding beyond the production system to include the application of lean principles to processes and functions that exist both within and beyond firm boundaries, including customers, suppliers and other stakeholders. We refer to this as a theory of *lean enterprise*. In the following section, we will first briefly review the concept of lean and then focus on an enterprise and how an enterprise can be lean.

**Fundamentals**

The early studies of lean organizations were carried out in manufacturing settings, typified by Toyota, where metrics such as inventory, work in process, and cost could be measured easily. Lean organizations were characterized as having (a) a pull-based system that signals the need for each production step rather than pushing an inventory of work-in-process, (b) standard work flow that promotes efficiency and rapid detection of deviations, (c) a learning system that supports continuous improvement, (d) a human resources system that empowers employees, and (e) a management system that offers support for the process. Over time, lean principles were extended to other aspects of the organization, such as product development, engineering, sales, and billing, and to service industries such as airlines and hospitals. However, the overwhelming majority of lean interventions have focused on the adoption of selected practices rather than as a complete system of change.

In contrast, a lean enterprise can be defined as an integrated entity that efficiently and effectively creates value for its multiple stakeholders by employing lean principles and practices. This definition offers a holistic and broad view that extends beyond an individual department, production line, or company. As a complex, integrated, and interdependent system of people, processes, and technology that creates value as defined by its stakeholders, a lean enterprise develops a value proposition that satisfies multiple stakeholders from various units of the company but also shareholders, suppliers, partners, and customers. For example, a hospital may apply traditional lean practices to deal with an overcrowded emergency room but end up creating more problems for other units in the hospital. An enterprise approach would examine the interdependencies between the emergency department, operating...
room, pharmacy, suppliers, human resource practices, insurance companies, primary care organizations, and other units within and outside the hospital (including patient expectations and behaviors) that are part of the way value is created for all stakeholders. Even Toyota can be considered part of the Japanese societal ecosystem: The lack of natural resources and the ability to exploit the unique Japanese conception of work were critical catalysts in development of the Toyota production system.

Therefore, a lean enterprise, while exhibiting the features of a lean organization, does so under conditions of complexity (size, stakeholders) and distributed authority (i.e., there is no single authority structure to make decisions and handle conflicts). Existing enterprises that seek to become lean cannot simply mandate new policies and practices, nor can they copy what others have done. Instead, leaders must bring their stakeholders into a new understanding of their interdependence in the creation of sustainable value and trustful relationships while transforming their practices in accordance with lean principles.

Research, based primarily on a small number of large-scale and longitudinal case studies, suggests there are seven principles that characterize lean enterprises. These principles underlie the features of lean organizations mentioned earlier but add new emphasis on holistic thinking and stakeholder value. Essentially, understanding how to be a lean enterprise is inseparable from understanding how to become a lean enterprise and how to sustain the lean enterprise. The first three of these principles can be closely identified with enterprise leadership and leadership responsibilities:

1. **Holistic thinking.** Lean enterprises constantly scan the ecosystem to ensure that they are able to meet the short-term value delivery goals and simultaneously shape the long-term ecosystem within which the enterprise operates. A lean enterprise requires leaders (and others) to take a holistic approach to considering all life cycle, leadership, and enabling processes in an integrative fashion, being careful not to suboptimize the performance of any one area.

2. **Leadership commitment to drive and institutionalize enterprise behaviors.** Leaders play a critical role in setting the vision for the desired future state, communicating it across the enterprise, and empowering and supporting engagement from all stakeholders. They establish the culture of continuous improvement and create the climate needed for experimentation. Given the emphasis of lean principles on enabling decision making at the lowest appropriate level, leadership necessarily has to be distributed and aligned across the enterprise.

3. **Comprehensive and fair stakeholder value propositions.** An enterprise can be analyzed as a network of value exchange between stakeholders and the enterprise, in which participation is governed by the ability of the enterprise to provide value to key stakeholders. While lean organizations typically focus on a single stakeholder group—the customer—lean enterprises have a fair and comprehensive value proposition that acknowledges and balances the needs of the multiple stakeholders. Furthermore, the value proposition evolves over time to be consistent with the core values of the enterprise.

The next two principles are concerned with the life cycle processes that make up an enterprise, such as sales, product development, and support services:

4. **A focus on effectiveness before efficiency.** The enterprise value proposition has to be constructed to meet both short-term and long-term needs of key stakeholders. It is important to make sure the enterprise is doing the “right things” before doing “things right.” All too often, a short-term focus on efficiency becomes a demand for cost and schedule performance that drives out quality, innovation, and long-term value. The focus on effectiveness encourages stakeholders to look across their area of responsibility to see the enterprise value stream as a whole.

5. **Attention to internal and external interdependencies.** Every enterprise is a highly integrated system whose performance is determined by the degree of alignment across the life cycle, enabling, and leadership processes. Often, these processes span functional and organizational boundaries, requiring an understanding of internal and external interdependencies to truly deliver on the enterprise value proposition.
The final two principles focus on enabling processes that support lean enterprise practices:

6. **Stability and flow.** Lean enterprises establish stability to create a baseline against which enterprise performance can be assessed. In the presence of stability, they can then focus on flow to visualize bottlenecks and identify the underlying causes of problems. Information and resources are the key flows that allow products and services to be created effectively and efficiently.

7. **Organizational learning.** Lean enterprises are constantly in motion, as are their environments, so that bottom-up continuous improvement and learning from experience; top-down architecting, reengineering, and transformation; and outward-in benchmarking and sensemaking are continually building enterprise capabilities.

Deborah Nightingale, John S. Carroll, and Jayakanth Srinivasan

**See also** Business Process Reengineering; High-Performance Work Systems; *Kaizen* and Continuous Improvement; Organizational Effectiveness; Organizational Structure and Design; Stakeholder Theory; Systems Theory of Organizations

**Further Readings**


**Learning Organization**

In an organizational context, *learning* refers to the process by which organizations notice, interpret, and manage their experience. The outcome of the learning process is typically a change in the organization's knowledge and action repertoires. Knowledge, in this sense, refers to the stock of insights on causal relations (why X leads to Y) and to the process of acquiring knowledge. As it becomes rooted in the organization's routines, practices, and memory systems, the experience related to a specific task or situation can become knowledge, in the form of a cognitive or behavioral transformation or both. Learning, thus, can be thought of as an ongoing spiral; knowledge from past experiences influences the current organizational situation and, in turn, its future. Anchoring the concept of learning in organizational experience solves the tension between two seemingly contradictory views embedded in the learning organization—one that regards learning as a trial-and-error process honed through action and experience and another that emphasizes how cognitive patterns and cause-effect relationships evolve into shared beliefs that are ultimately institutionalized. To examine fundamental processes characterizing the learning organization, this entry reviews (a) four basic characteristics of the learning organization; (b) the evolution of organizational learning theory, including major works that shaped our understanding and our sense of the future trajectory of research; and (c) key research findings on the learning organization, suggesting readings on the topic.

**Fundamentals**

Learning in organizations is often described as multilevel, meaning that learning can occur at the individual, group, organizational, and interorganizational levels and that learning at one level can
Learning Organization

Learning Organization

affect learning at other levels. The learning that occurs at each level has distinctive characteristics regarding what is learned, how it is learned, and how learning is best accomplished. These differences derive from recognizing that organizations are more than the aggregation of individuals, and therefore, processes such as learning involve more than the accumulation of individual learning. To give a few examples: Context can have a significant effect on individual learning; powerful individuals within the organization can influence what information is transmitted; and social interactions among members of the organization—or with external entities—may increase or decrease the outputs of learning.

In 1990, Peter Senge introduced the concept of the learning organization to describe an organization that continually fosters the learning capacity of its members, enhancing its ability to transform itself in the face of changing conditions. He identified five ways in which organizations can enable long-term competitiveness—systems thinking, personal mastery, mental models, building shared vision, and team learning—of which systems thinking is the most important and integrative. Many practitioners followed Senge’s footsteps and wrote books with their own models of the learning organization. However, researchers have not yet identified a model of the learning organization that is universally applicable.

Learning is a complex process and thus has been conceptualized in a number of different ways. A simple way to think of it is as a cyclical process that links together four elements: individual learning, organizational learning, organizational action, and organizational context.

Individual Learning

At the individual level, learning involves the conscious or unconscious recognition of patterns that can potentially become opportunities for action. Over time, consensus over shared understandings can develop among organizational members and, through repeated interactions, learning can become embedded in the systems, structures, routines, practices, and infrastructure of the organization. Through institutionalization, the cognitions and/or behaviors that result from the learning process become taken for granted, thus creating a perceived reality of the organization and its context. The resulting stocks of knowledge offer individuals an array of resources, including cognitive and behavioral capabilities, from which actors can draw as needed. Learning that is embedded in the organization influences the way in which individuals interpret subsequent events and experiences and, consequently, shapes the future learning of the organization as a whole.

While organizational learning is often linked to action directed toward change, it can also be directed toward stability by allowing organizations to build on past experiences and maintain the behaviors that were effective. From this perspective, learning can be explained as an evolutionary process of variation, selection, and retention of effective practices, where variation refers to the different interactions by which new knowledge can be generated; selection refers to the processes by which the organization determines what bits of knowledge are viewed as effective; and retention refers to the translation of effective knowledge into institutionalized routines, structures, and practices.

Organizational Learning

The concept of organizational learning suggests that the locus of learning does not exclusively reside at the individual level, since learning can result from social interactions and from experiences in particular contexts or situations. Over time, the new repertoire of knowledge and actions can become embedded in the organization’s routines and practices. Thus, rather than consisting of the transfer of information from one entity to another, learning materializes through interactions across (or within) any level. Thus, organizational learning can occur internally (from the cognitive patterns that emerge within the organization from repeated interactions) or externally (from the interactions of the organization with its environment). At this level of analysis, the emphasis is less on the content of learning and more on the emergent, processual nature of learning.

Not all organizations have the same ability to become learning organizations. In fact, the rate at which an organization learns is one of the few competitive advantages that remain sustainable over time. The term absorptive capacity, coined by Wesley Cohen and Daniel Levinthal in 1990, refers to a firm’s ability to recognize the value of new information, assimilate it, and apply it to commercial ends, using the stocks of knowledge and capabilities it already has. An organization’s absorptive capacity
largely depends on prior knowledge, the variety of organizational experiences, and the ease with which knowledge is transferred across and within subunits in the organization.

The importance of context at the organizational level is reflected in the concept of dynamic capabilities, which describes the set of processes whereby organizations reconfigure their material and knowledge resources to create value under conditions of rapid and unpredictable change. These capabilities are often very similar across organizations and, thus, are popularly referred to as “best practices.” According to Kathleen M. Eisenhardt and Jeffrey Martin, an organization's dynamic capabilities vary in relation to the dynamism of its context. Under conditions of moderate or incremental change, dynamic capabilities can be routines that are stable in nature and have predictable outcomes; under conditions of fast-paced change, dynamic capabilities can be simple processes that have unpredictable outcomes and are permanently subject to a strategic modification. This distinction shapes the learning organization: under moderate change, the organization's actions are contingent on existing knowledge, and under fast-paced change, the organization relies on newly created knowledge, and its execution is based on trial and error.

Organizational Action

In 1991, James March introduced the idea that an organization's action can be channeled to either exploration, search directed toward new knowledge and competencies, or exploitation, search directed toward the better use of existing competencies. In this sense, exploration refers to the search for new, useful adaptations, and exploitation refers to the use and propagation of known adaptations.

For most organizations, balancing exploration and exploitation requires a trade-off between present and future returns. Organizations that rely excessively on just one strategy can fall into dysfunctional learning traps. These traps occur because organizations tend to overlook or overvalue distant times or contexts and ignore failures. Organizations rely on exploitation because it yields more certain and immediate returns; however, it is less likely to yield truly novel solutions and can lead to obsolescence in the long run. Although exploration can enable the discovery of profoundly novel solutions, it also can cause a degradation of performance in the short run because searches for novel solutions tend to fail.

In this context, the speed at which learning occurs acquires particular relevance. For instance, slow adaptation benefits an organization because it encourages the incorporation of new and divergent ideas. In contrast, fast learning tends to drive out alternatives, narrowing the body of knowledge within the organization, which limits the available options and encourages more conservative exploitation in the system. Fast adaptation will tend to exhibit more exploitative behavior, even in situations where the long-run implications of exploration are positive.

Yet learning does not necessarily lead to action. Organizational actions are selected to fit a context. Managers might decide not to carry out a specific behavior or action if they deem the context different from their previous experiences. Attention to noticing and comprehending the context is an important component of the learning process itself.

Organizational Fields, Market Categories, and Industries

The actions of an organization affect its context; simultaneously, however, the context affects how an organization interprets and makes sense of the situation. As interpretations become shared among all the organizations in a field—including competitors, suppliers, buyers, regulatory agencies, and industry associations—patterns of action begin to emerge, thus creating a context that further affects the future experience of organizations. In this way, organizations contribute to the creation of their own environments. The subsequent influence of the context on organizational action emerges as pressures to adopt shared practices regarded as legitimate. Therefore, the goal of learning at this level is more about gaining legitimacy by means of noticing, interpreting, and managing the established “rules of the game” than it is about creating new knowledge. However, scholars have pointed out that learning at the field, or institutional, level can also occur when an organization adopts an idea or business practice later in the diffusion process, driven by the learning experiences of prior adopter organizations for anticipated efficiency benefits.

The interaction of organizational experience and environmental context can lead to learning beyond
the organization itself and extend to the level of taken-for-granted rules, norms, and beliefs that characterize the field or industry. At this level, learning occurs when the institutions, or shared understandings, of a particular field change in response to some learning experience. Several mechanisms help explain how institutional learning and change occur, including (a) organizational or individual actions that generate change as a result of unintended consequences; (b) learning processes across organizations and/or populations that are geographically apart or occur in different networks; (c) organizational efforts to imitate other organizations; (d) field-level underperformance and slow adaptation processes; (e) unlearning, disadoption, or negative diffusion caused by factors such as personnel turnover; (f) learning from other organizations’ experiences in order to implement best-practices or more efficient routines; and (g) differences in regulation and the organization’s responses to regulation and competition.

Evolution

Although the notion of the learning organization can be traced back to the writings of Max Weber on bureaucracies, it was Richard Cyert and James March who, in 1963, first focused attention on learning in the context of organizational routines. Later, in 1978, Chris Argyris and Donald Schön brought attention to the complexities of learning by distinguishing between single-loop and double-loop learning, depending on whether the current rules, frames of reference, or assumptions are held (single-loop learning) or changed (double-loop learning).

Building on this and other work, researchers began to engage a number of different questions. For instance, while some scholars focused on delineating the construct of learning and on differentiating organizational learning from individual learning, others debated the nature of learning as primarily cognitive, associated with knowledge and insights, or primarily behavioral, defined by a change in actual or potential actions. Related streams of research took divergent paths: some aimed at delineating the boundaries between organizational learning, organizational change, and adaptation; others emphasized adaptive learning and modeled organizations as target-oriented, routine-based systems; and still others paid more attention to the processes of knowledge development by focusing on the content produced by learning.

Another notable distinction is that between researchers who studied organizational learning as an outcome in and of itself and those who built on the findings of organizational learning to explain other organizational phenomena, such as innovation, adoption of best practices, and creation of strategic alliances. In particular, organizational learning became very popular within the field of strategy, where researchers studied the relation of learning to performance and introduced terms such as absorptive capacity, stickiness, and dynamic capabilities.

Over time, traditional conceptualizations of human cognition shifted from emphasizing the “what” or the object of learning to the “how” or the process of learning. The traditional view conceived of learning as a process of knowledge transfer that occurred in and across individual minds. Yet as different factors, including the organization’s identity, the flexibility of its strategy, and the characteristics of the field or industry, were found to enable or constrain the process of learning, a sociocultural perspective emerged, in which learning is conceived as a socially embedded process dependent on the uncertainty, munificence, and richness of the context in which it occurs. This will likely spur future inquiries into the learning organization, along with a more nuanced perspective on how the interaction of organizational experience and environmental context affect the creation of knowledge, and a more thorough exploration of organizational learning subprocesses, including the creation, retention, and transfer of knowledge.

Importance

These different perspectives on organizational learning have enriched our understanding of the learning organization. Empirical work has shown how, under conditions of high uncertainty, organizations benefit from redirecting resources to processes of exploration, while under lower uncertainty, organizations tend to rely on exploiting their available knowledge stocks. Moreover, learning can have both positive and negative effects: Organizational performance can improve with experience as a result of learning, yet it can suffer from incorrect inferences or erroneous causal beliefs, particularly when organizations operate in ambiguous environments in which the
interpretation of the available information can lead to different and often inaccurate assumptions.

Much of the current research focuses on (a) understanding the mechanisms by which learning occurs, (b) when it is that learning leads to improved performance, (c) why it is that some organizations are better at learning than others, and (d) how the context in which organizations operate affects learning. In addition, work has focused on understanding the relationship between organizational learning and organizational action, building on findings that show how the availability of resources, the structure of the organization, the internal and external politics, and the degree of environmental complexity can influence whether or not learning is translated into action.

Another area of inquiry focuses on the relationship between learning and knowledge and has demonstrated that organizations store knowledge in various ways, including the know-how of individual members and the structures, routines, and practices of the organization. Researchers have enriched our understanding of the collective memory systems through which organizations codify, store, and retrieve knowledge regarding the expertise of its members and the processes required to access this information.

New lines of research that have important practical implications are exploring the mechanisms by which organizations learn through rare events, the effects of social networks on knowledge creation, and the consequences of mindful (attentive) or less mindful learning subprocesses on the outcome of knowledge creation, transfer, and retention.

In conclusion, the learning organization continues to be a key concern today. For managers, achieving short- and long-term goals largely depends on the organization’s ability to continuously learn and adapt to the environment. However, the challenge of creating a learning organization is not only establishing the appropriate systems for acquiring cognitive and behavioral capabilities but also to ensuring that these capabilities are retained and easily retrievable. Based on current theories, it is important for managers to acknowledge that learning at the level of the organization is more than the mere aggregation of individual knowledge and behaviors. When learning is viewed as tied to specific contexts and constructed through the ongoing interactions of organizational members, the question becomes less about what individuals are learning and more about how the interpersonal and behavioral connections can enable organizations to better navigate the complexities of the environment.

Mary Ann Glynn, Simona Giorgi, and Andrea Tunarosa

See also Double Loop Learning; Dynamic Capabilities; Experiential Learning Theory and Learning Styles; Multilevel Research; Tacit Knowledge

Further Readings


**Level 5 Leadership**

Level 5 leadership is an evidence-based theory that describes a set of five kinds of managerial leadership styles for increasing effectiveness of executive management of large companies. The theory is an
important addition to the study and practice of management through wide interest and response by practitioners and a multifaceted set of responses from academia. James C. (Jim) Collins III has been the driver of the theoretical development and operates an influential management and consulting laboratory for defining leadership and training managerial leaders. In his 1994 book, *Built to Last: Successful Habits of Visionary Companies*, Collins and coauthor Jerry I. Porras looked at how to build an enduring great company from the ground up. Developing the ideas, a second project was initiated to attempt to discover how companies that had been operating at an “ordinary level” quickly developed into exceptional performers in their industries—went from good to great. In the research for the 2001 book *Good to Great: Why Some Companies Make the Leap . . . and Others Don’t*, Collins sought processes and outcomes that would allow him to look empirically at the question of how a decent company could become a great one. In this study, he presented a framework for Level 5 leadership. This entry provides an overview of the definition and evolution of the theory.

**Fundamentals**

James C. Collins earned degrees in business administration and mathematical sciences from Stanford University and taught at Stanford in the 1990s. In 1995, he founded his management laboratory in Boulder, Colorado, for research and education on how great organizations become that way and do or do not stay great and for providing insight and guidance to leaders and those charged with hiring leaders. Collins has worked in the business sector as a senior executive at CNN International and with social sector organizations, such as the Johns Hopkins Medical School and the Girl Scouts of the USA, among other nongovernment and government organizations. Collins has been engaged in a series of research projects to distinguish companies that are sustainably great from others. For the publication of *Good to Great*, Collins and his staff identified 11 great companies and compared them to 11 unexceptional companies. They identified the distinguishing feature of the great companies as a new CEO who took charge of the organization and then improved its performance. These 11 CEOs all shared the same two characteristics: They were modest and humble, as opposed to self-dramatizing, self-aggrandizing, and self-promoting, and they were phenomenally, almost preternaturally, persistent in driving the companies toward prescribed goals.

**Collins's Hierarchy of Leader Characteristics**

At the time, these findings were contradictory to the business literature that promoted the cult of the charismatic CEO. The Level 5 leader refers to the peak of a five-tier hierarchy of leader characteristics. A Level 5 leader is someone who embodies personal humility and strong and willful persistence in pursuing formulated goals and objectives. Collins's leadership level hierarchy consists of

- **Level 1**: the highly capable individual—a productive contributor with exceptional individual talents and skills,
- **Level 2**: contributing team member—works effectively and contributes to achieving team goals,
- **Level 3**: competent manager—efficient and effective pursuit of goals through planning and organizing,
- **Level 4**: the effective executive—clear and compelling vision encourages high performance,
- **Level 5**: the leader—personal humility and professional resolve allows development of a great organization.

In the book *Good to Great*, Collins describes Level 5 leaders as not exhibiting a strong charismatic personality but holding a sense of purpose to serve the common good above personal gain. The idea is supported by another evidence-based theory, that of James Kouzes and Barry Posner, in the 2007 fourth edition of *The Leadership Challenge*. They similarly note that the credibility of a leader is built on his or her character: a willingness to define and live personal values and to strive for a higher purpose that appreciates the diversity and role of constituents in shaping the future.

Frequently, the lack of public prominence of Level 5 executive leaders is obscured by Level 4 types—CEOs who do have effective leadership skills but are often more committed to self-aggrandizement than the sustained future of the enterprise. Celebrity leaders often succeed for a time but can be damaging in the long run because they don't create sustainable results. Collins often refers to Lee Iacocca as a prominent example of a Level 4 executive. Iacocca did
improve the fate of Chrysler while he was CEO, but he did not establish and implement a long-term vision for the company. Chrysler, according to Collins, is an example of “good-to-great-to-imploding,” a more common example than sustained good-to-great company. According to Collins, we live in a culture that does not pick Level 5s as subjects of admiration; we pay attention to the 4s.

Collins employs a parable he calls “the Window and the Mirror.” Level 5 leaders tend to look in the mirror and blame themselves for mistakes. But when things are good, they look out the window and proclaim either how everyone in the company is wonderful or how good fortune caused success. Collins comments that when he asked Circuit City’s Alan Wurtzel about his company’s success, Wurtzel replied that 80% to 100% was because “the wind was at our backs.” Collins faxed him charts showing how much better his company did than others in the field. “I told him they all had the same wind,” said Collins. “‘Gee,’ was his response. ‘We must have been really lucky.’”

Practices of the Level 5 Leader

Collins identifies key practices associated with Level 5 Leaders in his list of great companies: Get the right people on the bus; successful staffing must be in place before the leader can decide what decisions are taken. Enterprises can change if the right people are in place, and the wrong people will certainly make the enterprise fail. Confront the brutal facts; don’t ignore reality in favor of hopes, and only by having accurate facts can you achieve success. The hedgehog concept; having a single, simple, extremely clear concept of what is the business of the enterprise, which must be something the business can make money at, be passionate about, and be the best in the world at. As the ancient Greek poet Archilocus noted, “The fox knows many things, but the hedgehog knows one big thing.”

Additionally, Collins identifies the three circles: (1) A culture of self-discipline is critical, and the hedgehog concept creates a defined system within which to act. (2) Technology is an accelerator, not an impetus for or agent of change. Good companies use it to facilitate execution of processes, but it won’t save a failing company. (3) The flywheel refers to the idea of momentum; keep pushing in the one correct direction, and the company will build up a lot of momentum that will help overcome obstacles. Momentum is built a bit at a time, through constant, diligent work.

Most of the executive leaders of great companies discussed luck as an important factor in their success. Level 5 leaders are not the kind of people who want to point to themselves as the cause for an organization’s success.

As time passed, CEOs changed, and the great companies’ performances changed. However, because some of the great companies profiled in Good to Great and Built to Last had subsequently lost their positions of prominence does not invalidate what we can learn by studying that company when it was at its historical best. In Collins’s 2009 book, How the Mighty Fall: And Why Some Companies Never Give In, he revisits the company histories, seeking the seeds of destruction leading to serious performance stumbles for both the successful and the comparison companies. He identifies the five stages of progressing from great to destruction:

Stage 1: Hubris born of success. Level 5 Leaders never presume they have reached ultimate understanding of all the factors that brought them success; they retain a somewhat irrational fear that perhaps their success stems in large part from fortuitous circumstance and thereby worry incessantly about how to make the enterprise stronger and better positioned for the day the good luck runs out.

Stage 2: Undisciplined pursuit of more. Violation of the hedgehog concept—companies stray from the disciplined creativity that led them to greatness in the first place, making undisciplined leaps into areas where they cannot be great or growing faster than they can achieve with excellence or both.

Stage 3: Denial of risk and peril. Leaders discount negative data, amplify positive data, and put a positive spin on ambiguous data. Those in power start to blame external factors for setbacks rather than accept responsibility. The vigorous, fact-based dialogue that characterizes high-performance teams dwindles or disappears altogether.

Stage 4: Grasping for salvation. The cumulative peril and risks gone bad at Stage 3 assert themselves, throwing the enterprise into a sharp decline visible to all. Those who grasp for salvation have fallen into Stage 4. Saviors sought include a charismatic leader, a bold but untested strategy,
radical transformation, a dramatic cultural revolution, a hoped-for blockbuster product, a game-changing acquisition, or any number of other silver-bullet solutions. Initial results from taking dramatic action may appear positive, but they do not last. According to Collins, leaders atop companies in the late stages of decline need to get back to a calm, clear-headed, and focused approach. If you want to reverse decline, be rigorous about what not to do.

Stage 5: Capitulation to irrelevance or death. The longer a company remains in Stage 4, repeatedly grasping for silver bullets, the more likely it will spiral downward. In Stage 5, accumulated setbacks and expensive false starts erode financial strength and individual spirit to such an extent that leaders abandon all hope of building a great future. In some cases, the company’s leader just sells out; in other cases, the institution atrophies into insignificance; and in the most extreme cases, the enterprise simply dies outright.

Importance

As an evidence-based theory, the Level 5 leadership model has been criticized for using data-mining techniques that could lead to conclusions based either on random patterns or on patterns that exist only in the sample firms for a particular time period studied. The studies are also criticized for survivorship bias or survivor bias, an effect in a study where comparisons of companies that have an unusually high and consistent record of success are compared with a historic population average. This is not a flaw in Collins’s work but in the design. The highly successful companies are outliers. Given the relatively high turnover of CEOs, it is possible that the market selects CEOs with high skills, and these CEOs build companies that can survive a few decades of inept executive leadership, assuming they are not succeeded by another Level 5 leader.

Level 5 leaders’ propensity for humility has led to their attribution of success to luck or forces external to themselves; in Collin’s 2011 book with Morten Hansen, *Great by Choice: Uncertainty, Chaos, and Luck—Why Some Thrive Despite Them All*, emphasis is on the choices leaders make as determining success, confirmed in paired comparisons of great and ordinary companies. Executive leaders of great companies combined creativity with discipline so that the discipline amplifies the creativity rather than dampening it and are “productively paranoid” so as to create a company that can deal with big, unexpected shocks. The Level 5 leader demonstrates (a) fanatic discipline through consistency of action, not overreacting to changes in circumstances; (b) empirical creativity through bold initiatives directed by sound empirical information; and (c) productive paranoia—continual search for threats, especially when things are going well. The paranoia is channeled into preparation, contingency plans, and building margins of safety.

As an indicator of the influence of the Level 5 concept, *Good to Great* was listed in Forbes magazine’s list of the 20 Most Influential Business Books from 1981–2000 and in Covert and Sattersten’s *The 100 Best Business Books of All Time*. Harzing’s *Publish or Perish* citation search software shows that Collins’s specific Level 5 publications average some 81 citations per year.

As to whether Level 5 leaders are born or made, Collins concludes that many people probably have seeds of abilities and attitudes necessary to attain that status. Collins’s work provides managers today with a set of managerial processes derived from empirical studies of companies of varying degrees of success that can be relatively easily implemented by executives with the authority to do so. Those with lesser authority can apply the techniques within their organizational parameters defending their initiative from Collins’s evidence and, hopefully, their own success. Additionally, Collins’s company provides formal training.

Romie Littrell

See also Behavioral Theory of the Firm; Business Policy and Corporate Strategy; Charismatic Theory of Leadership; Contingency Theory of Leadership; Evidence-Based Management; Influence Tactics; Organizational Culture Theory; Self-Fulfilling Prophecy; Transformational Theory of Leadership

Further Readings


Locus of Control


LMX Theory

See Leader–Member Exchange Theory

Locus of Control

*Locus of control,* referring to the concept of internal versus external control of reinforcement, developed out of social learning theory. Locus of control is the source of perceived power to affect an outcome. An internal locus of control reflects the belief that power resides within the individual, while an external locus of control reflects the belief that power resides in outside forces. The individual’s perception moves somewhere on a continuum between internality (i.e., control by self) and externality (i.e., control outside of self). Organizational change initiatives can be more efficient and effective when managers consider locus of control. Understanding an individual’s perceived locus of control is important for managers’ ability to lead or influence, because the employee’s reaction to change will likely depend on the employee’s locus of control. Managers who understand that subordinates with an internal locus of control respond differently to organizational change initiatives than do those with an external locus of control can improve employees’ commitment and reduce negative behaviors such as turnover. Although also relevant to other contexts (e.g., psychology, adult development, education, and learning theory), this entry focuses on the application of locus of control in the context of management of planned organizational change.

Fundamentals

In 1954, Julian Rotter put forth the concept of internal versus external control of reinforcement in a seminal text on social learning theory. Social learning theory represents a synthesis of Clark Hull’s stimulus-response theory and Edward Tolman’s cognitive interactionist theory. The major difference between stimulus-response and cognitivist learning theory centers on the use of the concept of reinforcement (i.e., goal, objective, outcome). The premise of social learning theory is that an individual’s actions are predicted on the basis of the individual’s expectations for reinforcement, the perceived value of the reinforcement, and the situation in which the individual finds himself or herself. Expectancy requires that the individual value the outcome, have self-efficacy, understand and trust the reward system, and avoid negative or unacceptable outcomes.

Although Rotter’s social learning theory attempted to integrate stimulus-response and cognitive interactionist learning theories, he is more commonly viewed as a leading contributor to the study of linear cognitive interaction. Perhaps this view is based on his notable emphasis on the cognitive-field interactionist learning theory of Kurt Lewin rather than on B. F. Skinner’s theory of conditioning through reinforcement. Social learning theory embodies the idea of continuous learning and making meaning within a collective context through interaction with one’s environment. In other words, personality, which is internal to the person, cannot be viewed as existing in isolation from the environment. To understand behavior the individual and environment must be considered together. The concept of locus of control is focused on the individual’s perception of whether the locus of control or power is centralized in the person or in the environment.

Rotter conceptualized locus of control as a predisposition in the perception of what causes reinforcement (i.e., reward, favorable outcome, goal accomplishment). A predisposition for internal locus of control (i.e., internality) results from the perception that reinforcement is contingent on one’s own behavior or one’s own relatively permanent characteristics or traits (i.e., personality). Perception that
reinforcement is due to luck, chance, fate, or factors beyond one's control indicates an external locus of control (i.e., externality).

Rotter suggested that personality is a learned behavior compared to Carl Jung’s philosophy that personality is a heritable characteristic. Change in locus-of-control orientation is, therefore, expected because learning can occur. One aspect of an individual’s personality is the equilibrium between the individual’s respective drives for autonomy, control, and social acceptance. This equilibrium contributes to the individual’s locus-of-control orientation. Social learning theory suggests that locus-of-control orientation can change because of changes in reinforcement, the value of the reinforcement, or the situation itself. The implication is that an individual's locus-of-control orientation will change with life’s experiences.

In 1976, Herbert Lefcourt provided a slightly different perspective on the concept of internal versus external control of reinforcement. Perceived control is a generalized expectancy for internal control of reinforcement. Reactions to unpleasant stimuli are shaped by the individual’s perceptions of the stimuli and by the individual’s perceptions of ability to cope with the stimuli. In 1984, Patricia Gurin and Orville Brim provided another perspective on the construct. Sense of control is a function of causal reasoning. Expectancy is a probability assessment, tied to causal questions. An individual understands that a certain condition results in a certain outcome, and the individual has or can produce the certain condition. Albert Bandura defined this latter component as self-efficacy.

The first scholars to have used the term locus of control in reference to the construct of internal versus external control of reinforcement appear to be Rue Cromwell, David Rosenthal, David Shakow, and Theodore Zahn in 1961. Although hundreds of studies have investigated the construct, it was not until the early 1970s that locus of control regularly appeared in the psychology literature. Another decade passed before the term entered common usage in the management literature in reference to the construct of internal versus external control of reinforcement in the context of organizational change.

**Measuring Locus of Control**

Rotter provided a 29-item Internal-External (I-E) scale for identifying one’s locus of control. This forced-choice questionnaire assesses whether people believe that events are contingent on their own behavior or their own relatively permanent characteristics or traits (i.e., internal predisposition) or whether people believe that events are contingent on luck, chance, fate, or factors beyond their control (i.e., external predisposition). One point is given for each external response to a question; therefore, the more points a respondent receives, the greater his or her perception of external locus of control. Frequently, this scale is reverse coded, resulting in higher scores equating to higher perceptions of internality. Measurement of the locus-of-control construct has been debated. Lefcourt identified nine different instruments for assessing locus of control and cautioned using any of the scales with a discerning eye. Instruments using a forced-choice format (e.g., Rotter’s I-E scale; Reid-Ware Three-Factor I-E Scale) or a binomial format (e.g., Bialer’s Locus of Control Questionnaire), rather than Likert format scales, have tended to be used more consistently by researchers.

The multidimensionality aspect of the locus-of-control construct has been a source of interest in the arena of measurement. Factor analysis empirical research of Rotter’s scale has produced subscales with statistically significant criterion validity for measuring the locus-of-control construct. Alternately, studies have shown Gurin and associates’ 13-item scale’s validity for measuring the core construct of internal versus external control of reinforcement.

**Importance**

The initial grounded theory established generalized expectancies for locus of control. Confusion and misuse of the construct has led to clarifications, including the need to maintain generalized expectancy, treat the value of the reinforcement variable as a separate variable, and avoid unidimensionality. Some researchers erroneously attempted to use the I-E scale to predict specific behaviors. Although the theory allows prediction in a large number of different situations (i.e., generalized), prediction is at a low level. A second area of clarification centered on the three variables in social learning theory: the individual’s expectations for reinforcement, the perceived value of the reinforcement, and the situation in which the individual finds himself or herself. Some researchers, however, failed to treat reinforcement value as a separate variable. This is particularly
important to consider in social action situations. A third area of clarification centered on the multidimensionality of the construct. Investigators frequently referred to subjects' unidimensionality as internals or externals, with internals being viewed more favorably. Rotter reiterated that the I-E scale represented a multidimensional continuum, with an individual's position on the continuum as dynamic and neither good nor bad.

The general implications for a manager center on understanding employees' perception of locus of control around the organizational change. With those employees whose locus of control leans toward internality, the manager should leverage these employees' sense of empowerment by coaching them to move forward on the change. Have these employees identify actions they individually can take to support the change, lead in taking those actions, and support their external-locus-of-control coworkers in adjusting to the change. With those employees tending toward an external locus of control around the organizational change, the manager should coax them to move forward on the change. Help these employees identify aspects of the change over which they might regain a sense of control, consider aspects to which they can adapt, and take steps to let go of their reluctances.

Rotter's initial conceptualization of the construct focused on control over reinforcement (i.e., goal attainment, outcome). Some investigators, on the other hand, have interpreted this conceptualization as control over the individual's environment. The latter perspective appears faulty. For example, one cannot control whether it is going to rain (i.e., environment), yet one can control how wet one gets in the downpour (i.e., outcome). In a planned-change instance of downsizing, employees may not be able to control whether the organization goes through with it, yet they can exercise control over how the downsizing impacts their career. The manager should enhance employee internality by routinely creating opportunities for employees' proactive career development, helping employees see alternative options when downsizing occurs, and encouraging those who tend toward externality to regain some sense of control over their future in spite of the downsizing.

Locus-of-control research has proven especially relevant for managers engaged in planned organizational change. On the results of a study in which locus of control was an independent variable, after receiving feedback, individuals with an internal locus of control exhibited more behavioral change than individuals with an external locus of control. In a study on turnover intentions (TI), the results indicated individuals with a locus of control toward internality had a stronger influence of job satisfaction on TI and organizational commitment (OC), while those with locus of control toward externality had a stronger influence of perceived organizational support (POS) on job satisfaction and OC. The results suggested administering instruments measuring locus of control to differentiate internals from externals, then consulting with the externals to boost their confidence, which, in turn, will increase their POS, job satisfaction, and OC and lower their TI.

Organizational change results in a disorienting dilemma for many employees. Employees' sense of control is an issue in the reluctance of employees to embrace organizational change. One of the earlier studies of the locus-of-control construct showed that internality enhances information seeking, while externality reduces information seeking. Within the context of social learning theory, information seeking would be viewed as a function of the value placed on the objectives to which the information-seeking behavior is related and the expectancy for success in achieving those objectives. Lanny Blake's 11-step plan to simplify the change process and the change agent's role includes fostering a sense of control over the process by involving employees in the change planning and implementation stages. A greater sense of employee control comes from involvement and communication to build cohesiveness, collaboration, community norms of acceptance, involvement in problem solving and decision making, and participatory intervention.

The issue of control becomes relevant when an event is so significant that it makes uncertainty a concern. For example, the upheaval of reorganization causes an increase in employees' externality. Conventional wisdom suggests that management should notify employees of a pending layoff at the last possible moment, to minimize the response of dysfunctional employee behavior. The findings of one study showed no difference in behavior of employees notified at an earlier time. Instead, knowledge of an imminent layoff allowed employees to take control or at least maintain a sense of control of their lives (i.e., gain a greater sense of internality).
Jay Conger and Rabindra Kanungo identified two different approaches—relational and motivational—to the development of the empowerment construct, which viewed individuals’ locus of control as static rather than fluid or changeable. Empowerment as a relational construct occurs through movement toward participative management, where organizational decision making is shifted to lower levels for inclusion of a larger number of employees. Empowerment as a motivational construct occurs when management enables employees by helping employees perceive they have power and control—that is, enhanced internality.

*Martin B. Kormanik and Tonette S. Rocco*

*See also* Causal Attribution Theory; Empowerment; Expectancy Theory; Personal Engagement (at Work) Model; Reinforcement Theory; Social Cognitive Theory; Theory of Self-Esteem; Type-A Personality Theory

**Fundamentals**

Two major approaches are generally used to describe how managers formulate and implement strategy: the formal planning approach and the power-behavioral approach. Logical incrementalism is different from the formal planning approach. In the formal planning approach, the full strategy is formulated...
before it is implemented. Thus, the formulation and implementation of strategy are sequential activities. In logical incrementalism, strategy formulation and strategy implementation take place simultaneously. In addition, logical incrementalism emphasizes qualitative and organizational factors, whereas the formal planning approach focuses on quantitative analysis. The underlying rationale is that quantitative analysis is less useful for nonroutine activities (such as the development of a new strategy) than for routine activities. Logical incrementalism is also different from the power-behavioral approach. The power-behavioral approach focuses on negotiation processes and the practice of “muddling” in public administration. While logical incrementalists negotiate with stakeholders, they also have a clear sense of direction.

As Quinn made clear, successful strategies are rarely brought about deliberately through a process of formulation followed by implementation. They often emerge over time as managers proactively develop a course of action and reactively adapt to unfolding circumstances. The implications are straightforward. Instead of setting a course of action in advance, managers should proceed incrementally. Initially, the strategy is likely to be broad and vague. As more information becomes available, it will become more precise. Interestingly, there are two potential uses of logical incrementalism. Although logical incrementalism can be used as a process to formulate a strategy, it can also be used as a process to implement a strategy that already exists in the mind of top managers. In that case, the implementation of strategy (rather than the formulation of strategy) is incremental.

Logical incrementalism suggests that subsystems play a key role in the emergence of strategies. Large firms have different subsystems. They typically include the diversification subsystem, the divestiture system, the major reorganization subsystem, and the external relations subsystem. In the formal planning approach, strategies are formulated by the top management before being implemented in the subsystems. According to logical incrementalism, top managers should encourage employees working in the subsystems to contribute to strategies. A major advantage of small-scale experiments is that they face little opposition. In addition, failures do not have important implications for the firm. Because each subsystem focuses on a particular type of strategic issue, however, decisions made at the subsystem level may be inconsistent. Therefore, it is crucial for top managers to maintain some consistency among them. At the subsystem level, Quinn also makes an important distinction between “hard-data” and “soft” decisions. Examples of hard-data decisions include make-or-buy decisions and various resource allocation decisions. The use of a particular management style in a firm is a good example of soft decision. Unlike hard-data decisions, soft decisions cannot be made using quantitative analysis. However, they often have more important implications for the firm than do hard-data decisions.

**Importance**

Quinn suggests that logical incrementalism is the best way to develop successful strategies. As he put it, logical incrementalism “is so powerful that it perhaps provides the normative model for strategic decision-making.” Logical incrementalism has many advantages. First, the cognitive abilities of managers are limited and the environment that surrounds the firm is uncertain. With logical incrementalism, managers act in small steps and gather feedback. Thus, adaptations can be made over time and major mistakes can be avoided. Second, decisions made incrementally are easier to implement because they tend to be consistent with the culture, resources, and capabilities of the firm. Third, employees frequently have vested interests. Using an incremental approach can help overcome some of these vested interests.

The story of IKEA as told by Jérôme Barthélemy provides some evidence of logical incrementalism at work. IKEA is currently the world’s largest furniture retailer. IKEA’s success can be attributed to the fact that it redefined organizational practices in the furniture business. How did IKEA’s highly successful strategy come about? An in-depth examination of the history of IKEA reveals that its strategy was not brought about deliberately through a process of formulation followed by implementation. Consistent with logical incrementalism, IKEA’s strategy emerged as Ingvar Kamprad (IKEA’s founder) shaped a course of action by adapting to unfolding contingencies. For instance, global sourcing is a key driver of IKEA’s low-cost structure. Kamprad made the pioneering decision to source furniture from communist Poland as early as 1961. Because manufacturing costs were 50% lower in Poland
than in Sweden, this decision looks brilliant in hindsight. However, it was not deliberate. In the 1950s, Swedish furniture retailers and manufacturers had an agreement to keep prices high. Because IKEA’s strategy consisted in selling furniture at considerably lower prices than its competitors, the Swedish retail cartel gave local furniture manufacturers the following ultimatum: “If you sell to IKEA, we will no longer buy from you.” Most manufacturers didn’t dare defy the retail cartel and refused to do business with IKEA. Thus, looking for suppliers outside Sweden was the only way for Kamprad to overcome a boycott that could have led IKEA to bankruptcy. At that time, doing business with communist countries was unusual and risky. In fact, most of IKEA’s strategy emerged through experimentation. Ingvar Kamprad tested a large number of different approaches on a small scale. Originally, IKEA was a mail-order company that used to sell goods such as Christmas cards, pens, and picture frames. Kamprad introduced the first piece of furniture in his mail-order catalog to imitate a successful competitor. It is only because the “test furniture” was a huge success that he decided to focus on furniture and ended up discontinuing all other products. On the other hand, if an approach did not work, he refrained from using it again.

As Quinn put it, “strategy deals with the unknowable.” Therefore, proceeding incrementally is likely to be better than trying to plan everything in advance and implement this plan.

However, logical incrementalism is not a panacea for several related reasons. First, managers do not always anticipate the consequences of the decisions they make. Internal or external events over which managers have no control may precipitate a series of decisions that do not fit together and lead to confusion. Second, developing a strategy using logical incrementalism is a safe but relatively slow process. When decisions need to be made quickly, logical incrementalism may not be the best option. Third, logical instrumentalism remains more descriptive than normative. Although Quinn describes how managers deal with ill-structured issues, he offers little information about how to manage decision-making processes (and eventually enhance performance).

In general, research on strategic decision making can be divided into two categories: content research and process research. While content research deals with the actual content of strategic decisions, process research focuses on how they are made and implemented. Logical incrementalism is a major theory in the process research literature. The concept is referenced in most academic literature reviews, which clearly suggests that it is of interest to academics. It is also referenced in most management textbooks, which indicates that it is relevant for managers (and future managers). On the other hand, it can be noted that few empirical studies have actually used it. A potential explanation is that empirical research agenda has been dominated by content issues rather than by process issues. Another potential explanation is that Quinn’s empirical study provided sufficient evidence of the usefulness of logical incrementalism.

**See also** Decision-Making Styles; Modes of Strategy: Planned and Emergent; Process Theories of Change; Programmability of Decision Making; Strategic Decision Making; Strategy-as-Practice; “Unstructured” Decision Making

**Further Readings**


MANAGEMENT (EDUCATION)
AS PRACTICE

This entry explains why educating practicing managers is important and the main factors to bear in mind when doing so. Management cannot be taught in a classroom. Actually, it probably can’t be taught at all, but people can learn how to manage, to get better at it, and to take on more complex assignments, by reflecting on experience in the light of concepts. Management is a bundle of functions performed on behalf of an enterprise, and the term also refers to a specific group of people whose main role is to perform these functions. There is not always a perfect overlap between these two—not everything that managers do is really “managing”; nor is all management performed by people who are designated “managers.” This entry is concerned with education for people who manage, whatever their job title, particularly with education that makes use of that experience and relates directly to it. Consequently, it will not address education for people who want to be managers but so far have no experience of the work, or, people who research management but have no intention of doing it.

Fundamentals

Education for practitioners has a long history: Military training has often involved periodic reflection and reassessment of tactics and behaviors. In modern industrial settings, action learning is the term most often employed to describe an approach to learning from the experience of managing, while continuing to do the job. Action learning combines three kinds of inputs: participants’ current managerial challenges, the opportunity to discuss and compare with peers, and analysis and interpretation in the light of theoretical models. Groups of managers engage in “action learning sets,” committing to share their challenges and discuss their implications at regular meetings, face-to-face, or virtually. The approach was first articulated by Reg Revans in Manchester, England, in the 1960s and has evolved in numerous settings—within companies, in master of business administration (MBA) associations, and across communities, as the basis for emerging social reforms. In Revans’s original version, participants would work together without any outside interference, although many groups prefer to employ a professional facilitator but still follow an agenda that arises from the specific situations faced by members. Others are more structured, covering a curriculum with required papers leading to award of diplomas by universities or associations. These differences imply a significant question: Who determines what is legitimate learning, and what are acceptable outcomes? In the pure model, it is entirely down to the set members to evaluate each others’ contribution, and for each individual to make use of the outcomes in their own work. Facilitated groups may look to the professional facilitator to ensure quality of participation. Frequently, formal university accreditation is valued by participants, so they find ways to embed the evaluation of learning in assessment and examination processes. This is not necessarily a bad thing, as it can push people to think more deeply,
broadly, and critically about their own sensemaking; to subject common sense notions to rigorous analysis; and to pursue a structured path of gradually more complex and challenging ideas.

Common to all these approaches is shared reflection on experience in the light of concepts, with the intent to apply insights in one's own managerial practice; this is different from studying cases of other businesses, perhaps imagining oneself to be the CEO facing a tough decision. When the situation is one of facing oneself, it is far harder to succumb to wishful thinking or grand strategic gestures, because in reality, implementation is more difficult than one might imagine in a typical MBA classroom, for example. More importantly, when someone learning about management knows that he or she will be responsible for really following up on recommendations made in a discussion group, the individual knows him or herself to be a moral agent, responsible for whatever he or she does. This is the best basis for responsible management education: embedding it in real responsibilities, not working through simulations. This is based on an understanding of learning articulated for managerial settings by Chris Argyris and Donald Schon in the 1970s, drawing on ideas of earlier professional educators, such as John Dewey.

Advocates of this approach to management education criticize typical MBAs for teaching the wrong things to the wrong people in the wrong ways. Henry Mintzberg argues that management is more than the simple accretion of business functions; it can't be learned by people with no experience of managing and certainly not by sitting in a classroom absorbing techniques and models or pretending to be a character in a case study. Mintzberg suggests that managing is effected through various kinds of work: communicating, linking, and dealing in the organization and its wider environment and controlling, leading, and doing within a unit. These kinds of work might draw on skills and knowledge about finance, markets, organizational behavior, and innovation; but technical knowledge is necessarily subordinate to the interactive practicalities of managing. Jonathan Gosling and Mintzberg suggest that managing involves working in at least five distinct mind-sets: action, reflection, worldliness, collaboration, and analysis. Taking action is crucial, but one is only really managing (rather than reacting) when action is informed by reflection on ends and means: Are they worthwhile and effective? This requires analysis, and, not just from one point of view because managing always involves collaborating with others, which is only effective if one is able to get into their way of seeing things, with the worldly wisdom to know what will work for them. Educating practicing managers requires strengthening the ability to work in each of these mind-sets and to weave them together in each manager's specific context. Educational methods should, in this view, be designed to enhance reflectiveness, worldliness, analytical ability, action orientation, and collaboration.

This approach can be summed up in seven tenets for educating practicing managers: (a) Management education should be for practicing managers; (b) they should stay in the jobs so they weave learning through their practice; (c) management education thus leverages life experience as fully as possible; (d) the key to learning is thoughtful reflection, mostly with peers, interpreted in the light of concepts from relevant theory; (e) from this reflection follows impact at work; (f) all together, education becomes interactive learning; and (g) the physical architecture, faculty, and pedagogy of management education therefore has to be facilitative of this process.

Note that working with experience is not the same as “experiential” education, which refers to having experiences that are concocted to surprise, challenge, stretch, or focus attention on something new. Experiential education includes a huge range of activities, such as outdoor adventures, T-groups, work shadowing, community service, and business simulations. All of these can contribute valuable learning in the context of a well-designed educational program. But here we are concerned with the even wider context in which such a program takes place—specifically, a context in which the learner is primarily holding a managerial role and responsible for what happens as a result of the way she or he behaves in that role.

Importance

The workplace, where most managing takes place, offers many opportunities for learning if appropriate reflective practices are built into it. Management education, distinguished from management development by its attention to a broader context, is deepened when participants analyze and interpret
their current and impending responsibilities as “live case studies.”

Classroom activities can contribute if adapted to encourage discussion as well as presentations, but they need to be configured appropriately in their pedagogy and physical layout (movable seating in a flat room, for example). Lectures and concocted experiences can play a part by providing new perspectives, reconfiguring group dynamics, and demonstrating techniques, but all should be related back to the real and current responsibilities of participants. In this way, learning remains rooted in the moral agency of managers, valuing their human resourcefulness and recognizing that they offer more than mere technical competence in the functional disciplines.

Curricula should thus be organized in ways that enhance understanding of the complex interplay of personal motives, skills, competences, collective beliefs, technical procedures, group dynamics, political wrangling, argument, and persuasion by which managing is accomplished—and also enhance the participants’ readiness to act appropriately. This is unlikely to be achieved by a series of courses in business disciplines, such as finance, marketing, accounting, and so forth, however convenient it might be for teachers whose research careers and identities are organized in these silos.

An alternative is to design a curriculum according to various kinds of problems that managers face—problems of organizing, managing, working internationally, setting direction, and so on. Another logic, compatible with this, is to adopt pedagogies that draw participants into different ways of thinking, because managing involves fluency in a number of distinct mind-sets. For example, some argue that managers need to be able to work reflectively, analytically, collaboratively, with worldly wisdom, and oriented toward action. Each of these is rather different but must be woven together in the doing of managerial work. Educational activities can develop all of these mind-sets at the same time as teaching useful techniques and addressing important problems. These three approaches to curriculum and pedagogic design differ as follows:

1. Formulae, models, and techniques can be transferred to learners, who simply have to receive and absorb.
2. Case studies provide examples of real problematic situations and become especially useful if drawn from the experience of those taking part. This requires a discursive approach to learning spaces—not the combative arena of typical case-teaching classrooms, but round tables and a flexible agenda.
3. Ways of thinking—mind-sets—make available different kinds of awareness. Most experienced managers know this intuitively, and management education can enhance their familiarity and application of these mind-sets.

The point is that education that enhances practice should do more than impart knowledge and technical skill; it should enable people to think, see, and feel in different ways that are related to the work they do.

The ideas described in this entry have had a large and increasing impact on management education worldwide. The rise of business schools and the MBA degree in the latter part of the 20th century disguise the facts that (a) MBAs are a small part of the total management education market and (b) most countries (the United States excepted) will not accept people into MBA degree programs unless they have 3 to 7 years work experience. The United Kingdom has been a particularly intense site of innovation, where action-learning approaches are almost ubiquitous in most sectors of the economy and built into many MBAs. In the 1990s, many of these ideas were brought together in a program called the International Masters in Practicing Management (IMPM), a collaboration of five business schools in five countries, with participation from managers sponsored by their employing companies. The IMPM acted as a spur to many other business schools to move their provision more toward this style, and the original model of action learning, managers learning from each other in discursive groups without interference, has been adapted for the Internet age. A further development has been coined as “close learning,” in contrast to “distance learning.” In the latter, the student is distant from the supposed source of knowledge—the university. But close learning recognizes the opportunity to learn from day-to-day managerial experience, and it uses Internet technologies to bring all the elements so far discussed close to the manager—disciplined reflection and analysis of experience, group discussions with other managers, and theories and concepts with which to challenge common-sense interpretations.
At the margins, some are now predicting the end of the “banking” model of management education (in which the university acts as repository of stored knowledge that users might draw on), and a shift toward a “wiki-school,” in which practicing managers, researchers, and teachers cocreate knowledge, insight, and understanding by working collaboratively on current managerial work over the Internet and other mobile technologies.

Jonathan Gosling

See also Academic-Practitioner Collaboration and Knowledge Sharing; Action Learning; Experiential Learning Theory and Learning Styles; Learning Organization; Management Roles

Further Readings


Management by Objectives

Management by objectives, known in the private and public sectors as MBO, was initially developed and promulgated by Peter Drucker, Douglas McGregor, and George Odiorne. MBO is a system for uniting employees in the pursuit of their organization’s objectives. A key differentiator of MBO is its emphasis on cascading objectives from the CEO to the hourly employee. The objectives an employee is striving to attain are those that support the attainment of the objectives of the first-line supervisor whose objectives, if attained, support the attainment of the middle manager to whom he or she reports. Similarly, the objectives set and attained by the middle manager support the attainment of the objectives by a top manager whose objectives reflect one or more dimensions of the organization’s strategic plan. The result is everyone knowing and understanding what is expected of them as individuals to increase their organization’s effectiveness. In summary, goal attainment at each level in the management hierarchy facilitates the attainment of the objectives set by a manager at the next-highest hierarchical level. Because MBO is used in one or more forms by most organizations, this entry focuses on six aspects of MBO: (a) the core variables that constitute this procedure, (b) the relationships among these variables, (c) the implementation of MBO, (d) the boundary conditions for its effectiveness, (e) criticisms of MBO, and (f) the benefits of implementing MBO.

Fundamentals

MBO has a solid foundation in the behavioral sciences. Its effectiveness is due primarily to its emphasis on three core variables that are critical for motivating employees in work settings, namely, goal setting, performance feedback, and participation in decision making. More than 1,000 empirical studies in organizational psychology on goal setting show that specific, high goals lead to significantly higher performance than not setting goals or setting a vague one such as urging employees to do their best. Goals serve a dual function. First, they are motivating in that employees exert effort and persist until the goals are attained. Second, they serve as standards for performance evaluation. Interestingly, having a large number of goals has not been found to lead to negative results. In fact, employees who worked for supportive managers reported greater effort with increased number of goals. The setting of priorities is related to positive feelings about an MBO program and improved relations with one’s manager. Hence, many organizations use MBO
Management by Objectives

to conduct performance appraisals of individuals, teams, or both.

Hundreds of studies in both experimental and organizational psychology have shown that feedback on one’s performance is necessary for both learning and motivation. Specifically, feedback allows employees to determine what they must start doing, stop doing, or be doing differently to attain their respective goals. Research shows that people who receive feedback are motivated to solve problems and are more likely to do so. Feedback can also increase an employee’s self-efficacy that an objective is attainable. Given that the feedback is provided in a supportive manner, it is typically interpreted by an employee as interest and concern by the person’s supervisor. Feedback given in a negative manner typically lowers job performance. Participation with one’s supervisor on the goals that should be set, and the ways to attain them, increases an employee’s understanding of his or her boss’s expectations, and the appropriateness of the goals that are chosen. It also has been found to increase job satisfaction, particularly for employees who have a high need for certainty.

Interrelationships Among Variables

Goal setting is not effective unless feedback is provided on goal progress. Feedback is not effective unless it leads to the setting of and commitment to specific high goals. Performance feedback in itself is only information. It is useful only if it is acted upon. Employee participation in the setting of objectives is important because as noted earlier, it increases the likelihood of understanding expectations. It also increases the likelihood of understanding why an objective is important for an organization’s effectiveness. This typically leads to discussions of ways to attain it. Finally, there is evidence that participation in the goal-setting process leads to higher goals being set than is the case when they are assigned. Goal-setting theory states, and empirical research shows, that the higher the goal, the higher an employee’s performance.

Implementation of MBO

Implementing MBO is typically a four-step process. First, specific organizational objectives are set. Second, “cascading” supporting goals are established for employees in each hierarchical level, and plans for attaining these objectives are agreed upon. Third, dates are agreed upon for reviewing goal progress. The fourth step is the “final review” regarding goal accomplishment and the setting of new objectives. Meta-analyses reveal that the success rate of implementing MBO ranges from 90% to 97%.

Boundary Conditions

Factors inherent in the employee, the job, and the organization can enhance or diminish the effectiveness of MBO. Employees with a high level of interest in their job want their boss to be minimally involved in setting their objectives. Those who are high on need for certainty and structure in their jobs do want their boss to be extensively involved in setting objectives. For all types of subordinates, a manager should make sure the objectives focus on areas of importance for the subordinate’s, the department’s, and the organization’s success. Frequency of job change influences the effectiveness of MBO. In changing job situations, effort by the supervisor to clarify and prioritize goals is important. For individuals in stable jobs, high levels of supervisory involvement is sometimes perceived by employees as unnecessary and could be interpreted by the employee as the supervisor having problems with that individual’s performance. An organizational factor that influences the effectiveness of MBO is the support given to it by senior managers. An organization’s productivity increases when top management is committed, and is seen as committed, to MBO being taken seriously. When top-management commitment is high, gains in productivity are substantially higher than when top-management commitment to MBO is low.

Importance

MBO, with its emphasis on cascading objective setting, typically increases the amount of communication between management hierarchies, and between employees and their immediate supervisor, on the action steps necessary to implement the organization’s strategic plan. This communication reduces goal conflict among individuals. By rewarding progress toward goal attainment, the driving forces needed for an organization to be successful in its operating environment are focused on the “right
things.” Moreover, studies show that as a result of MBO, employee attitudes toward the job, as well as their performance, increases as does organizational commitment.

In addition to increasing an employee’s performance, studies have shown that the introduction of MBO programs improves an organization’s performance. The impact of MBO programs on productivity is further strengthened when the level of top-management commitment to them is high. When top-management’s commitment is high, gains in productivity are substantially higher than when top-management commitment is low. In short, top-management commitment plays an essential role throughout the entire process of MBO, including the setting of specific, high goals; providing feedback; and including employee participation in the decision-making process.

No management system or technique is immune to criticism. A major criticism of MBO is its focus on “bottom-line” cost-related measures. These measures (e.g., revenue generated, cost reduction targets) are sometimes excessive in that they are affected by factors that are beyond an individual’s control (e.g., currency fluctuations). Such objectives can lead to a “results at all costs mentality,” which in turn can foster unethical behavior. Moreover, bottom-line measures are often deficient in that they do not take into account factors for which an individual should be held accountable (e.g., team playing within and between divisions). The solution is to make explicit, and then assess, the behaviors an individual is to exhibit in attaining bottom-line objectives.

A second frequently heard criticism is that MBO implicitly encourages smart people to find ways to make relatively easy goals appear difficult to their boss. This sometimes occurs when MBO is used as the basis for making performance appraisals. This is especially likely to occur when monetary bonuses and salary increases are tied to goal attainment. A solution is to reward increments in goal progress rather than make money an “all or none” result of goal attainment or failure.

MBO is a performance management tool that allows managers to monitor the levels of productivity and performance in their organizations. MBO provides managers with important information to improve the performance of their employees. In terms of the modern management context in which organizations are faced with intense competitive pressures, it is important for managers to consider the negative implications of MBO. Managers need to ensure that using MBO as a performance management system does not create a results at all costs mentality in the organization or does not negatively influence the ethical standards in the organization. Managers should achieve this by monitoring the ways in which employees strive to achieve their goals and use this information in the appraisal process.

Gary P. Latham and Alana S. Arshoff

See also Goal-Setting Theory; High-Performance Work Systems; Human Resource Management Strategies; Learning Organization; Practice of Management, The; Quality Circles; Scientific Management

Further Readings

Management Control Systems

Organizational control is defined as any mechanism or process that managers use to align attention, attitudes, behavior, and outcomes of organizational
Management Control Systems

members with an organization’s goals. The concept of organizational control describes both formal control (such as structures, procedures, and rules) and informal control (such as norms, practices) mechanisms, as well as the systems of control mechanisms used in predictable configurations. From their earliest writings, organizational scholars have emphasized the relationship between control application and goal attainment and have depicted organizational control as one of the four primary functions (i.e., controlling, coordinating, organizing, and planning) of management. Most conceptualizations of organizational control rest on theories of cybernetic systems where inputs are transformed through processes into outputs. In implementing these systems, managers plan, measure, reward, and provide feedback on achieved performance. Control systems evaluate inputs, processes, and outputs to assess the attainment of specific production standards. If standards are satisfied, work proceeds unabated. If not, managers alter the inputs, processes, or outputs employed by the system until desired standards are achieved. The information processing theory of organizations was synthesized into the core idea that control is based upon the programmability of tasks and the measurability of outcomes. Contemporary organizational research presents two primary streams of control research. One influential body of work examines individual elements of control. A second prominent body of work investigates ideal types of control arrangements. Together, these two streams provide the foundation for control research; each is briefly summarized in this entry.

Fundamentals

Analyzing Individual Control Mechanisms as Single Elements

Research on individual mechanisms of control has greatly influenced theory and research over the last two decades. This work has identified and classified single controls as control mechanisms (i.e., individual units, such as standards, rules, procedures, policies, routines, and norms) used to manage organizational functions, such as socialization processes, principal-agent relations, and performance evaluations. The individual control mechanism perspective has emphasized the use of formal controls which describe officially sanctioned mechanisms that are executed through explicit, written codified rules, procedures, policies, and systems. Researchers have also emphasized informal controls that describe norms and beliefs that guide behavior. These mechanisms are developed and applied through direct (face-to-face) personal contact, shared experiences, organizational stories, rituals, and other culturally based processes.

Empirical research has classified individual control mechanisms according to the target of control. Arguably, the most widely used classification scheme groups mechanisms based on the segment of the organizational transformation process to which they are targeted: inputs used in production, processes involved in performing work, and outputs that represent product quality or quantity. Managers select input targets (“input control”) to direct the flow of human, material, and financial resources into the firm. Managers choose behavioral targets (referred to as “behavior control” or “process control”)—such as rules and norms—to determine how work gets done. Finally, managers employ output targets, such as profits, customer satisfaction levels, and production volumes and schedules—to regulate the product and service results that are achieved.

Examining Control Mechanisms in Clusters or Configurations

Researchers have observed that, in practice, sets of individual control mechanisms tend to predictably cluster into control systems and that studying each control element in isolation does not adequately reflect the complexity of organizational control use. This recognition has led researchers to focus greater amounts of their attention on evaluating the effectiveness of different control system configurations, how such control systems evolve over time, and the relationships between control systems and other important organizational phenomena (e.g., innovation, trust).

A second and distinct stream of control research has emerged that adopts a typological perspective in examining ideal types of control systems. Perhaps the most well-known typology of control systems was proposed in the late 1970s by William Ouchi (building on the work of Oliver Williamson). Ouchi’s “markets, hierarchies and clans” approach defined three distinct types of control systems, each comprising different clusters of individual control elements. Managers within market control systems
primarily focus on evaluating specific transaction outcomes; the most common of these is the price or cost of each transaction (e.g., a piece rate for production workers or a performance-based bonus for an executive).

A second form, referred to as the bureaucratic or legalistic control system, attempts to address how individuals adhere to organizational rules or norms. Managers within bureaucratic control systems apply formal procedures, rules and regulations, job specialization, and hierarchical authority to direct the processes and procedures that their subordinates use in performing work tasks. A third form, referred to as the clan control system, is composed of informal, norm-based social control mechanisms to ensure selecting the “right” people and doing things “properly.” In clan control systems, managers focus on selecting, motivating, monitoring, and rewarding based on adherence to the organization’s cultural norms as expressed through particular values, behaviors, and attitudes.

Recently, researchers have extended this control system classification by assessing the extent to which actors within each control system emphasize formal and informal mechanisms. These dimensions can be crossed to form a two by two table where low formal and informal control characterize the market control system and where high-low combinations characterize the “bureaucratic” (high formal, low informal) and “clan” control systems (high informal, low formal). This classification scheme has helped scholars identify the integrative control system as a fourth type, comprising high levels of both formal and informal controls. The incidence of each of the types of systems and how they evolve and change form over time is still not well understood, but research is being done to explore these fundamental questions.

Organizational control research has historically been manager focused and has stressed the use of singular control mechanisms in isolation. More recently, researchers have moved away from studying singular forms of control and embraced the study of multifaceted control systems. These two trends build on the seminal works on organizational control while reflecting the complexity needed to better understand how modern organizations function.

While organizational control theory spans decades and is no longer conceptualized as being only administered top-down, executed formally, and directed toward output through the use of reward and punishment levers, it is more important than ever to organizational success in uncertain and changing environments. Modern managers must recognize that control usage varies by organizational units and levels and is multifaceted and dynamic. The effective implementation of control by managers should seek to use multiple controls to balance and adapt configurations of control to promote the commitment and achievement of organizational goals. Thus, managers can continually reassess control usage across hierarchical levels and time.

Laura B. Cardinal, Sim B. Sitkin, and Christopher P. Long

See also Agency Theory; Balanced Scorecard; Contingency Theory; Organizational Culture Model; Organization Culture Theory; Organizational Structure and Design; Strategy and Structure

Further Readings

Management Roles

The concept of management roles refers to how managers behave at work. These roles are popularly described as what managers “do”: their performance in predictable roles that specify rights, duties, expectations, and norms. Thus, management roles
Management Roles are highly influential in the field of management since what managers do depends to a great extent on how they perceive these roles. The following three sections of this entry describe the concept of management roles, trace the development of management role theory, and evaluate the contributions of that theory. The concluding section lists suggestions for further reading and provides cross-references to related entries in this encyclopedia.

Fundamentals

Because management is difficult to define, it is not always possible to draw clear distinctions between managerial and nonmanagerial work. Tasks considered managerial in one country or a sector may be categorized as employee tasks in other countries and sectors. However, as researchers, if we look at the roles managers perform, we may reach a better understanding of how managerial work differs from nonmanagerial work. From the lowest supervisory level to the highest executive level, managers lead other people, often assuming interpersonal, economic, and operational responsibilities. These responsibilities have an important impact on various management roles.

Before describing these management roles, it is useful to briefly discuss roles and role theory as developed mainly in the fields of sociology and social psychology. In role theory, the role concept is associated with the division of labor that assigns heterogeneous and specialized tasks to (work) roles. There are many work roles other than management roles, for instance, teachers, nurses, police officers, and sales persons, all of which are unique work roles.

In all such work roles, in addition to prescribed rights and duties, there are expectations and norms of appropriate behavior. For example, it is assumed managers will take leadership responsibility competently and authoritatively. Yet as the ongoing discussion about management roles indicates, the specific expectations and norms are rarely static. Managers are change agents. Therefore, as they help their organizations change, they too are required to adapt to new expectations and norms.

There are several ways to look at how expectations and norms associated with management roles are shaped. Evaluations are influential. People (other managers and/or employees) evaluate managers’ performance, and managers evaluate their own performance. Is he or she acting competently in this situation? And what about oneself? Such self-evaluation is strongly related to identity regulation. In addition, the responsibilities and obligations of work tasks influence the expectations and norms of managerial roles.

In his 1973 book, The Nature of Managerial Work, Henry Mintzberg presented what is now the most renowned model of managerial roles. The model consists of 10 roles divided into three categories: interpersonal roles, informational roles, and decisional roles. These 10 roles are summarized next. The term organization is used here in a general sense to mean the entity, the unit, the department, and so on.

Interpersonal Roles

- **Figurehead**: A manager who represents the organization. These work tasks typically have a ceremonial character.
- **Leader**: A manager who creates a positive atmosphere and motivates subordinates. Work tasks include employee hiring and compensation.
- **Liaison**: A manager who is the contact link between peers and outsiders. In modern management literature, this work task is often described as networking.

Informational Roles

- **Monitor**: A manager who is knowledgeable about various conditions related to the organization. Such conditions include environmental issues, technological developments, and cultural trends.
- **Disseminator**: A manager who circulates information (both factual data and value-based opinions) in the organization.
- **Spokesperson**: A manager who publicizes information externally that is in the best interest of the organization, for example, in order to persuade consumers or to establish or reestablish external legitimacy.

Decisional Roles

- **Entrepreneur**: A manager who initiates change that exploits opportunities and improves operations, for example, by increasing productivity using new technology.
- **Disturbance handler**: A manager who deals with negative events in the organization, such as
product quality problems, workplace conflicts and accidents, and poor employee job performance.

- **Resource allocator**: A manager who makes decisions or approves and/or disapproves decisions related to the allocation of financial and personnel resources and to the authorization and scheduling of various activities.

- **Negotiator**: A manager who mediates between the organization and union representatives, customers, and business partners.

Another leading management researcher is Rosemary Stewart, a business theorist who has written extensively on managerial work. In her 1967 book, *Managers and Their Jobs*, she identified five managerial groups. In profiling these groups (listed next), Stewart presented another categorization of management roles.

- **Emissaries**: Managers who travel widely and spend much of their time away from the organization.

- **Writers**: Managers who read, analyze, and write.

- **Discussers**: Managers who work mainly through staff meetings.

- **Troubleshooters**: Managers who work mainly with disturbances, including operational problems.

- **Committee members**: Managers who work with committees that consist of members from various organizational areas.

Fred Luthans, Richard M. Hodgetts, and Stuart A. Rosenkrantz present a third conceptualization of management roles. In their 1988 book, *Real Managers*, they identified and quantified the following 11 kinds of activities performed by managers. Percentages are averages for the 248 managers in their study.

- Exchanging information (15%)
- Handling paperwork (14%)
- Planning (13%)
- Decision making (11%)
- Interacting with outsiders (10%)
- Socializing and politicking (9%)
- Controlling (6%)
- Training and developing (6%)
- Staffing (5%)
- Motivating and reinforcing (5%)
- Managing conflict (4%)

A second important topic in the research on management roles is managerial behavior (i.e., what do managers do?). A constant finding in this research is that face-to-face meetings consume a significant amount of the manager’s workday (even with the arrival of smart phones, e-mail, and other forms of electronic communication in the past decade). Managers typically spend between one half to two thirds of their workdays in meetings in which the most time-consuming activity is information processing (e.g., listening, talking, and reviewing). Despite the popular image of managers as sovereign decision makers, in reality, they work cooperatively with others.

Another common finding is that, because of the unpredictability of their work demands, managers are mostly involved with unscheduled activities, often in fragmented ways. A typical workday involves dealing with a series of unrelated tasks, some of which must be addressed simultaneously. This work pattern is especially evident for managers who are closely involved with production processes.

Managers have work challenges that are often daunting, particularly in large organizations. Sometimes, managers who are confronted with ambiguous goals are rarely sure of the results their decisions will achieve. For instance, serious problems may arise in a project that initially seemed promising, or a key employee may leave the organization, or an important supplier may fail to meet delivery terms. Successful managers must be flexible in adapting to new circumstances that require dealing constructively with the stress of such heavy and changing workloads. It is exhausting work.

The following quote from Linda Hill’s 1992 book, *Becoming a Manager: Mastery of a New Identity*, reveals a common frustration managers have about their work:

> A lot of days, I'm here early and out late. Still I accomplish nothing that I was supposed to accomplish. I have so many interruptions and have to keep shifting my priorities. By the end of the day I feel drained, with nothing to show for all my work. (p. 192)

To deal with this organizational maze, managers follow both formal and informal paths. They are involved in numerous informal activities, both at work and outside of work. Such activities include building personal alliances, gossiping with
peers and others, and exchanging tricks-of-trade with other managers. Formal activities have a more symbolic aspect, and this means that while they are treated as significant activities they are in reality not so important for the determining the future of the organization. Examples are participation in conferences where decisions have been made a priori or where managers have to show compliance with particular policies, even if they may be largely irrelevant to their own concerns.

The manager who follows the rules and supports the customs and values of the organization is perceived as a competent role performer. The unconventional manager who wears Bermuda shorts to board meetings or who is unwilling to monitor costs will not last long in the role (provided he or she is not an owner). However, it is not enough to merely play the role of the “organization man” or woman. Successful managers must find creative solutions to problems. Unlike many nonmanagerial positions, management positions allow room for individual influence. According to Stewart, choice in management roles arises in the space between job demands (what has to be done) and job constraints (what cannot be done). She concludes that even managers in similar positions may interpret their areas of choice very differently.

Evolution

The concept of work roles can be traced back to the German sociologist Max Weber and his writings about bureaucracy. Weber described how bureaucracies could act in a rational way if the work holders, here called role occupants, were able to differentiate between personal values and work-specific norms and rules. Weber’s writings have stimulated a vast literature on the role of the bureaucrat or administrator; a notable critique to the notion of the rational administrator has been made by Herbert A. Simon.

The research on management roles is generally acknowledged to originate with Sune Carlson’s 1951 classic book, Executive Behaviour, a study of 10 Swedish top executives. Inspired by the work-study tradition in the scientific management movement, Carlson studied executive behavior, in particular the executives’ workloads and work methods. Later studies, patterned after Carlson’s study, have replicated his findings. The work behavior of top executives, with their excessive workloads, is fragmented and reactive. It is difficult for them to find time to deal with long-term issues and company policies.

In the 1950s and the 1960s, researchers in the United States and England focused on the management roles of the foreman and the middle manager. Besides Stewart’s research (see above), there were several other studies. Melville Dalton’s Men Who Manage and Leonard Sayles’s Managerial Behavior examined the informal aspects of managerial work, including its complexity. Sayles also identified several management roles (e.g., the liaison, the disturbance handler, and the negotiator) that Mintzberg made use of in his model.

Daniel Katz and Robert L. Kahn integrated role theory within an open-system organizational framework in the 1960s, and they identified three different managerial roles:

- **Technical role**: Work activities make use of specialized and functional techniques, that is, budgeting, market research, and analytic tools.
- **Interpersonal relations**: Work activities relate to human relations and people management, for instance, motivating and conflict resolution.
- **Conceptual role**: Work activities relate to complex problem solving and the ability to take a broad and long-term perspective.

In addition to articulation of his 10 management roles, Mintzberg in his 1973 book (see above) summarized what researchers of that time had learned about managerial work. According to Mintzberg, the research concluded the following: (a) Managers work at a demanding and unrelenting pace; (b) managers work in situations where brevity, variety, and fragmentation are the norm; (c) managers prefer to focus on live action (i.e., current rather than historical events); and (d) managers prefer face-to-face meetings and telephone conversations rather than written communications. These four points still seem a valid description of the nature of managerial work.

In the same book, Mintzberg described an observational study of chief executives that he also wrote about in the now-classic 1975 article titled “The Manager’s Job: Folklore and Fact.” In the article, Mintzberg criticized the popular view of the manager as the decision maker who makes
a careful evaluation of various alternatives before taking action. In the article, Mintzberg also broke from the traditional view that management action requires systematic analysis.

John Kotter developed these ideas in his 1982 book, *The General Managers*. Kotter showed that managers could take advantage of fragmented and emergent work situations by using personal networks to advance their agendas. Kotter concluded that even chaotic discussions could be highly effective and that short-term and reactive behavior could benefit long-term objectives.

There is also research on management roles that deals with other informal aspects of management behavior, in particular the involvement of managers in organizational politics. For example, Rosabeth Moss Kanter's 1977 book, *Men and Women of the Corporation*, describes how senior executives are more comfortable hiring men, and considers female managers as too emotional and as odd members in peer networks. This attitude prevented women from advancing in companies. There are also studies that show how managers use their personal networks to advance their careers and avoid the perils of reorganization and downsizing.

More recent research highlights the emotional demands and stress experienced by managers in their work. As this research shows, some managers become disillusioned and cynical as far as their management roles. An example of such research is Tony J. Watson's 1994/2001 book, *In Search of Management*. In describing the chaos, uncertainties, ambiguity, and contradictions that surround managers, Watson shows how upper managers influence the work of middle managers by introducing change and restructuring programs. Yet as Watson argues, these measures seem mostly to produce unexpected and unplanned-for results in the paradoxical and complex world of management.

To conclude, the research on management roles tells us that managers do not always behave in the ways management textbooks describe (and promote). Researchers of management roles do not necessarily find that managers are poor practitioners. Instead, they find that the simple prescriptions for effective management behavior and the one-dimensional descriptions of management roles are of limited use in actual managerial work environments.

Importance

Despite the existence of research on management roles, it is much more common for researchers, past and present, to focus on managerial functions in organizations. The functional approach has dominated in such studies since the early 20th century. The result of the popularity of this approach is that management researchers have narrowed their objects of study to specialized areas that deal with particular functions, for example, management accounting or marketing strategy. With such foci, it is possible to develop recommended work practices for specialized areas.

However, the functional approach fails to take a broad, large-scale perspective on management roles. Managers have to oversee a large number of functional activities in order to make a somewhat coherent assessment of them. It is not certain, for example, that the accountant's control measures motivate subordinates who may have different views. Although it may be argued that the functional approach has influenced management roles research (e.g., Mintzberg's ten roles model), not all managers' actions have functional purposes. More importantly, managers rarely use (or use differently than described) the managerial functions found in textbooks. One explanation may be that formal and rational decision making is too time consuming and too intellectually demanding.

Despite the modest attention given to them by researchers in other subfields of management research, the management roles research has identified many ideas worthy of continued examination. Perhaps the most important of these ideas is that managers perform their roles in complex and often unstructured work settings where outcomes are uncertain, behaviors have symbolic meaning, and stress, overwork, and frustration are commonplace. Gradually, this practice approach, which looks at what managers really do, has begun to establish itself as a research method that rivals the traditional functional approach. Examples of the latter are the strategy-as-practices approach and the behavioral decision-making approaches (see the links at the end of this entry). There are good possibilities for cross-fertilizations between these approaches and the managerial roles research.

Management roles research benefits from its strong empirical base. The findings from this research
Management Symbolism and Symbolic Action

Management symbolism and the focus on symbolic action within the field of organization and management studies can be labeled as one result of the so-called cultural turn within organization studies. During the 1980s, organization and management scholars shifted their attention from understanding organizations as rational-authoritative machines or information-processing computerlike entities toward organizations as populated by human beings who bring with them interests, norms, values, and expectations in their search for creating meaning from the world around them. As a result, the experiential world of the organizational members and how they create and interpret organizational reality became the center of academic and managerial interest. This entry first outlines the fundamental ideas behind this approach before turning toward leadership studies and the symbolic management approach as two particular examples of how the symbolic perspective on management and organization has influenced research and practice.

Fundamentals

Approaching management from a symbolic perspective involves referring to the category of meaning within organization and management...
Management Symbolism and Symbolic Action

studies. Focusing on symbolic action implies an understanding of organizations as being constituted and enacted by all organizational members, bringing acts of sensemaking to the forefront of any activities in order to develop insight. Following this, the meaningful world of organizations is conceptualized as the result of numerous and ongoing social interactions, creating, maintaining, and changing what is understood as organizational reality. This reality provides organizational members with a common understanding and a frame of interpretation. This frame offers information about status, power, commitment, motivation, and/or control and in this sense informs about the social order. For example, it serves as the background in understanding the employees’ role within the organization, interpreting the various discourses within the organization, or perceiving an action as management action.

Understanding organizational reality and management as being infused with meaning implies a rejection of the existence of factual or objective actions and outcomes. Instead, phenomena such as organizational structures and processes, strategies, management decisions, leader behavior, or employee deviation make sense only when the meaning that organizational members attach to these phenomena is understood. Thus, structures, concepts, material objects, acts, and forms of communication are seen as symbols that need to be interpreted in order to comprehend their meaning.

Paying attention to symbols (i.e., phenomena and attached meanings) means to consider the following three characteristics. First, symbols vary in their degree of complexity. Plain symbols, such as the size and furnishings of a manager’s office, straightforwardly signify the responsibility and importance of this person. However, a language specific to an organization or a profession (e.g., the language of information technology specialists) constitutes rather complex symbolic systems that demand a higher effort of interpretation in order to make sense of them. Second, symbols within organizations both unconsciously emerge and are intentionally created. Organizations consciously create a certain picture of themselves for their employees in order to achieve various effects. For example, to issue a house journal is one means to communicate the organization in a certain—usually favorable—way to its members. With regard to emerging symbols, a manager’s efforts to prepare himself or herself for all kinds of unexpected situations, by establishing various action plans, symbolizes something about this person’s way of dealing with difficult situations. Third, although symbols are constituted in social interaction, their meaning is not shared by all organizational members in every case. For instance, to receive an award for longstanding service within the organization is interpreted as a great honor by some, yet it is understood by others as a symbol for excessive subordination and loyalty (“25 years of subjugation for a distinguished service award”).

The latter aspect already suggests an important note embedded in the understanding of organizations as symbolic systems or, more precisely, systems of shared meanings. Although organizations are conceived as meaning systems, the degree to which meaning is shared varies due to organizational subunits having their own interpretations. Arguably, the management and workers of a company would each have a different understanding of a labor dispute and, thus, each party’s approach to resolve such a dispute would vary. Another example would be the implementation of a strategy focused on the customer, which could be perceived as more welcoming by the marketing department than by the controlling unit. Consequently, although organizational reality provides the members of an organization with a frame for interpreting their experiences at work, this should be understood only as an orientation toward possible perspectives and points of view. The particular meaning attached to, for example, the decision to outsource elements of the production process or to switch to flexible labor is informed by the organizational context and other interpretative resources such as individual and group interests, socialization, social class, and organizational position. In fact, a symbolism-based account of management and organization implies learning about the ongoing processes of cocreating meaning out of the organizational members’ lived experiences at work.

Furthermore, organizations do not exist independently from their surroundings. Hence, the meaning of organizational aspects is also informed by, for example, the broader society. Symbolic action within an organization is infused with meaning from other symbolic systems. To understand organizations one has to learn about the interpretative resources of organizational members as well as how their interpretations are informed by sources located both inside and outside the particular organizational
context. In this sense, to grasp how decisions are made on the one hand requires reconstruction of the different interpretations of the people contributing to the decision-making process. On the other hand, the influence of societal symbolic structures, for instance, the relationship between men and women, professionals and nonprofessionals, or old and young people needs to be considered, as these symbolic aspects transcend the boundaries of organizations and may also influence decision-making processes.

Importance
Management symbolism and symbolic action acknowledges the interacted social reality in organizations and, thus, provides a useful framework for management research focusing on cultural and symbolic issues. In particular, management is conceptualized as a collective sensemaking process with all parties of the organization involved. In this sense, the meaning associated with structures, processes, and actions cannot be prescribed by an authoritative sender (e.g., the management) but has to be continually negotiated with the receiver (e.g., the workers).

The symbolism approach to management and organizations has significantly influenced management knowledge. This influence can be observed in both academic studies and applied management. Two examples to be referred to here are leadership studies and the perspective of management as a symbolic action.

The study of leadership is a field that is impacted by the ideas of symbolism. Symbolic leadership approaches concentrate on studying values, meaning, interpretation, history, and context in addition to other symbolic elements of the leadership process. On the one hand, leaders do not directly influence followers in a sort of objective and unidirectional way. Leaders are themselves symbols, and their actions are symbolic actions that are subject to interpretation by followers. What leaders are, what they do, and essentially what leadership means in a particular organization is manufactured within the social interaction between leaders and followers. Leadership, then, becomes conceptualized as a collective effort of participants to co-construct, co-maintain and co-change their understanding of the social order. Studying leadership, hence, involves developing insight into processes of symbolic action and the negotiation of joint meaning. To understand leadership implies to learn about the various codes members of an organization use for interpreting perceived reality and to decode the numerous linkages within the symbolic systems at play. On the other hand, this account of leadership research does not conceive leadership as independent from the organizational context. Rather, leadership is embedded in organizational language, material artifacts, and social structures and rules. Consequently, employees are influenced by the actions of leaders as well as by reward systems, organizational principles and rules, work content, and practices. Leadership becomes defined as a distinct kind of social practice that receives its meaning only in relation to other social practices within the process of organizing. Hence, the context needs to be taken into consideration as it is only through the relation between leadership processes and the context that one can make sense of the leadership phenomenon studied.

The so-called symbolic management approach is another example of how the turn toward understanding meaning and sensemaking in organization and management studies has influenced management knowledge. At the heart of this approach lies the proposition that to manage organizations successfully one should not concentrate on managing human resources, organizational structures, or financial resources but should focus on the meaning attached to these organizational aspects. In this sense, management becomes the management of meaning, which means to provide and negotiate a sense of what is going on in the organization. Symbolic resources—that is, sources to make sense of what is going on, are understood as the primary source in the process of influencing attitudes, values, and emotions. Thus, two principles are constitutive of symbolic management.

First, symbolic management implies an understanding that meaning is not manageable. One cannot create, control, or manipulate the meaning associated with managerial acts, incentive systems, or flat structures. Rather sensemaking is a process of cocreation with those affected by managerial decisions playing an important part. Hence, symbolic management should concentrate on providing the sense behind organizational processes and structures; therefore, managers should actively involve themselves in the process of negotiating joint meaning. This account turns management processes into
creative and participatory undertakings aiming to establish reflections about organizational culture and, thus, values, principles, and behaviors. A dialogue is favored in order to enable all participants to grasp the nature of the organization's culture and to understand its symbolic reality.

Second, symbolic processes possess their own logic. To influence the meanings contributing to organizational members’ sense of their organization is difficult, and it takes time. Organizations as systems of shared meanings develop their own logic that cannot be simply changed by one member or one group. Additionally, as organizations form rather complex symbolic systems, they cannot be understood from a single point of view. In this sense, managerial actions, for example, the changing of the organizational logo, or announcing that “from now on we are working in teams rather than groups,” or proposals that starting next year the organization will become more service oriented, won’t necessarily affect employees’ interpretations in the intended way. Employees will make their own sense of these changes, which may consequently result in rather unexpected behavior. Thus, symbolic management implies an understanding of the symbolic logic of the organization, not to be able to successfully manipulate it but to better understand the social consequences of management, including unexpected developments or unwanted effects.

Some authors argue that engaging in the management of meaning appears to have no direct impact on behavior, and as such, it has led managerial research and practice to partly swing back to more functionalist approaches. Nevertheless, one can conclude that management symbolism and the focus on symbolic action nowadays constitutes an important and influential part of management studies and organizational design.

Ingo Winkler

See also Narrative (Story) Theory; Organizational Culture Model; Social Construction Theory

Further Readings


Managerial Decision Biases

Decision biases are systematic and predictable deviations from rational thoughts and behaviors. Such biases span all steps of the decision-making process, from defining the problem to weighing the criteria to computing the optimal solution. Within the past five decades, the study of decision biases has taken primarily a descriptive approach toward understanding ways in which individuals are biased. Herbert A. Simon’s research on bounded rationality established one of the earliest frameworks on biases in decision making, suggesting people's judgments depart from rationality due to three main factors: (a) a dearth of crucial information or criteria for understanding the problem, (b) time and cost constraints in obtaining higher quality information, and (c) perceptual errors that limit accuracy in calculating a solution. Since then, researchers have focused on how individuals are biased by the use of heuristics. This entry provides an overview of that work and also gives attention to more recent work on bounded decision
making, misattribution, emotions, and recent attempts to prevent or eliminate such biases.

Fundamentals

Heuristics

Perhaps the most widely researched biases stem from the study of heuristics, which are mental guidelines, or “rules of thumb,” used to reach a solution, particularly when an exhaustive search is impractical. Daniel Kahneman and Amos Tversky noted that three main heuristics—availability, representativeness, and anchoring—can lead to irrational, suboptimal, and sometimes contradictory decisions. The availability heuristic suggests that individuals assess the frequency, probability, or likely causes of an event based on the degree to which instances or occurrences of that event are readily available in memory. In particular, events that are more recent, vivid, or easier to recall can heavily influence subsequent decisions. For instance, human resource managers may be more likely to hire memorable individuals, who tend to have a background, culture, and education similar to their own.

The representativeness heuristic encapsulates how people tend to look for traits that correspond to previously formed stereotypes and use this similarity as a proxy for misguided probabilistic thinking. Dependence on similarity to make inferences may lead to insensitivity to base rates and small sample size, misconceptions of chance and regression to the mean, and the conjunction fallacy. Entrepreneurs ignoring base rates will overestimate the probability of their businesses achieving success because they do not take into account the base rate for business failure. The belief that small sample sizes are sufficient to draw inferences about a larger population is another bias that results from use of the representativeness heuristic. As a result, managers testing a product with a small sample of individuals may overestimate the degree to which the small sample is representative of the entire population of consumers and, thus, may too readily make product decisions based on this inference.

Begetting misconceptions of chance, the representativeness heuristic often results in faulty predictions about future events. Individuals may believe that the sequence of coin flips H-H-H-H-H-H is much more likely than the sequence H-T-H-T-H-T, even when the probabilities of both sequences are identical, because the latter appears more random and also has an equal representation of both heads and tails. Furthermore, ignoring that each flip is independent of every other, individuals are much more likely to predict that the subsequent flip will be tails when asked about the first sequence than the second sequence. These misconceptions of chance are seen especially in many sports fans’ belief in the “hot hand” phenomenon: Players have a better chance at making a shot or scoring if they have had a consecutive series of shots or points. However, such a phenomenon does not exist, as research has shown that the immediately prior shot does not affect the outcome of the subsequent shot. Biases in predictions may also result from neglecting the principle of regression to the mean. That is, individuals overweight data from past performance in making their predictions of future performance, which is particularly problematic for outcomes that are heavily dependent on chance. Investment managers may mistakenly expect that funds that have done well in the past may continue to do well in the future.

Using similarity or representativeness to judge the probability of an event can also lead to the conjunction fallacy, which occurs when individuals believe the subset is more likely than the larger set. This fallacy typically arises when the conjunction of multiple events or qualities is more vivid than any one of the qualities alone and biases judgments in all fields from international relations to medicine. For instance, when individuals are asked to estimate the incidences of earthquakes in California versus North America, their answers likely imply that California has more earthquakes than North America, a statistical improbability.

Research has shown that anchors, including defaults, frames, and reference points, also serve as heuristics, biasing individuals’ answers to questions even when the anchors are irrelevant to the questions at hand. Once individuals encounter these anchors, individuals generally fail to adjust sufficiently, even if these anchors are irrelevant to the context. Such effects are particularly well documented in literature on negotiations that show the initial offer to the opponent anchors the final deal, especially when there is ambiguity from the opponent’s perspective over the true value of the negotiated object.
A number of other biases have also been summarized from this literature, including the confirmation bias, which is based on individuals’ natural tendency to search for confirming evidence, not disconfirming evidence. The Wason selection task illustrates this bias: Participants are shown four cards, two cards with the numbers 3 and 8 and two cards with red and brown colors facing upward, and they are asked to provide the two cards that can sufficiently test the statement that if a card shows an even number on one face, then its opposite face is red. While most individuals are correct to pick 8, they are usually incorrect in picking red—as the second card, neglecting evidence that could invalidate the statement. Hiring managers often face problems that arise from confirmation bias as they follow up only on the performance of those they hired, not those they did not hire.

**Bounded Awareness, Ethicality, and Willpower**

Whereas research on bounded rationality and heuristics generally focuses on how individuals depart from rationality when they are aware of the information provided, research on bounded awareness targets how people fail to notice or focus on useful, observable, and relevant data. In auction scenarios, bidders often fail to realize that placing the highest bid in order to win an auction item may in fact be a curse as the winning bid is likely greater than the item’s true value. Inattentive blindness refers to the phenomenon in which individuals do not see what they are looking for, even when they are looking directly at it. Similarly, individuals are subject to change blindness, which describes how individuals fail to notice changes in their environment, particularly when the change is gradual. In the domain of ethical decision making, individuals are more likely to make unethical decisions when the ethical degradation is gradual, rather than sudden.

Bounded ethicality refers to the psychological processes that lead people to engage in ethically questionable behaviors without being aware that they are doing anything wrong. Research suggests that individuals often implicitly associate positive characteristics to in-groups and negative characteristics toward out-groups, or groups to which these individuals do not belong. Such research may be particularly relevant for hiring managers, who may be expressing favoritism toward their in-group members and as a result, unknowingly and indirectly discriminating against applicants outside the in-group. Additional research on bounded ethicality suggests that individuals who were depleted of their self-regulatory resources were more likely to cheat impulsively than individuals who were not depleted.

Beyond ethics domains, other biases stem from individuals’ bounded willpower, which refers to the overweighting of the present and near future, and underweighting of future states. Because individuals often discount the future, they consequently take actions that directly conflict with their own long-term interests. Such bounds in willpower help explain the reason individuals procrastinate or neglect to save for the future. Research suggests that organizations also exhibit bounded awareness when they fail to use cost-efficient building materials because they are expensive in the short run.

**Misattribution**

Misattribution refers to individuals’ biased judgments about the causes or associations of social phenomenon. The fundamental attribution error describes individuals’ tendency to judge others’ behaviors as a reflection of their stable disposition and one’s own behaviors as a result of situational factors. Additionally, individuals generally attribute positive behaviors to dispositional factors and negative behaviors to situational factors for people they like; for those they dislike, individuals are more likely to attribute positive behaviors to situational factors and negative behaviors to immutable dispositional factors. Individuals also tend to believe that their own behaviors are more variable than others’ behaviors. Such errors in judgment could exacerbate conflict among individuals in organizations, especially if individuals perceive others’ negative behaviors as part of their immutable disposition. Another form of misattribution bias is the self-serving, or egocentric bias, which describes how people claim to have taken more responsibility than other contributors attribute to them. As a result, individuals in a team setting are likely to overclaim credit for the work they have accomplished, particularly when the outcome is positive.

**Emotions**

Just as heuristics and bounded awareness can lead to biases, emotions can also greatly impact the decision-making process and can lead individuals to make irrational or suboptimal decisions. Research
on negative emotions suggests that fear triggers risk-averse behaviors, whereas anger incites risk-seeking behaviors and leads individuals to be overconfident and optimistic about risky decisions. Ironically, those who are angry perceive themselves to have lower risk of health issues, such as heart disease, even though they are actually the individuals who are at heightened risk of heart disease.

Research on how emotions affect managerial decision biases is particularly relevant in the context of negotiations, where outcomes can vary widely. For instance, anger is one of the main explanations for rejecting unfair offers, even if accepting the unfair offer is monetarily more optimal than the alternative. Findings on positive emotions suggest that managers strategically displaying positive emotions are more likely to close a deal and gain concessions from the other party in distributive settings. Even though negotiators make more extreme demands when facing an opponent strategically displaying negative—rather than positive or neutral—emotions, these negotiators are also more likely to concede to an angry opponent than to a happy one.

**Importance**

Although research on managerial decision biases often focus on negotiation and hiring decisions, scholars have shown that biases exist in almost every area of managerial life, including, but not limited to, employee evaluations, team performance, and strategic planning. For example, managers can overestimate sales of a particular product due to the desire to look for confirming evidence of product success or overattribute work to the individual who is most visible on a particular project. Studying these biases is particularly important within the management field as decision biases are pervasive and can have a large impact on the structure, function, and composition of organizations.

Given that biases are widespread, how can modern managers prevent them from influencing the decision-making process? In recent years, a growing number of researchers have been focusing more on how to design choice sets that ultimately nudge individuals toward the more optimal choices. For example, if enrollment in 401(k) plans is suboptimal, then managers could make enrollment in these plans the default option. However, designing the optimal plan is not straightforward. Default enrollment into 401(k) plans for employees appear to dramatically increase enrollment numbers; however, these plans can also lead employees to anchor at low, suboptimal default savings rates, especially problematic for those who would have otherwise chosen high savings rates under a system without a default choice. Such findings illustrate that further research is needed to determine exactly how choice architectures can be optimally designed, especially when the best decision differs for each individual. Future directions of this research could be particularly relevant for managers as they design the choice architecture to curtail the rate of errors in decision making within their organizations.

Beyond choice architecture as a means of reducing bias in decision making, scholars suggest that obtaining the perspective of an outsider who does not have an economically or emotionally vested interest in obtaining a particular outcome can curtail irrational decision making. Furthermore, there is some evidence that simply being aware of how individuals are biased can lead managers to make more rational decisions.

_Ting Zhang and Max H. Bazerman_

See also Bounded Rationality and Satisficing (Behavioral Decision-Making Model); Decision Support Systems; Decision-Making Styles; Intuitive Decision Making; Strategic Decision Making; “Unstructured” Decision Making

**Further Readings**


Managerial Grid

Leadership theories can be grouped into three main categories: (a) leadership as personality, (b) leadership as behavior and action, and (c) leadership as symbol. Leadership style denotes the behavior or behavioral pattern of leaders. Robert R. Blake and Jane S. Mouton’s managerial grid theory is among the most well known in the field of leadership style. The leadership grid theory is based on a large number of studies performed by Blake and Mouton, among others such as Anne Adams McCanse. There are also two kinds of theories on leadership effectiveness. The universal theorists claim that there is one best way to lead, while the contingency theorists claim that leadership effectiveness is dependent on the situation. The managerial grid theory represents the strongest argument for the former. The managerial, or leadership, grid provides a framework for understanding and executing effective leadership. The grid theory has been applied all over the world, to private, public, and voluntary organizations.

Blake and Mouton’s first book on their theory appeared in 1964. Over the years, they applied the theory numerous times and developed it, refining its theoretical basis and steadily adding to the documentation of its practical use. The key behind the success of the grid theory lies in the focus on style (behavior). Blake and Mouton rejected the notion that leadership style has its basis in personality. This entry presents the two dimensions of leadership style and defines the five leadership styles. Additionally, the explanation of the leadership behavior is also presented as well as how Blake and Mouton measured the styles. The entry also stresses the argument that there is one best way to lead—team management—and the logical and empirical support for this universal theory of leadership.

Fundamentals

The Two Dimensions of Leader Behavior

Blake and Mouton stated that the process of achieving organizational purpose through the efforts of people results in some people attaining the authority to set the direction and to coordinate effort, that is, to exercise the responsibility for the activities of others. The foundation for understanding leadership consists in recognizing that a boss’s actions are dictated by assumptions on how to use authority to achieve organizational purpose with and through people. According to Blake and Mouton, the processes of leadership involve the achievement of results with and through others. Whether it is called management, supervision, or administration, the underlying processes establish direction and permit coordination.

The basis for Blake and Mouton’s grid theory is simple but fundamental. There are two dimensions (orientations) in all leaders’ behavior. One dimension covers managers’ concern with solving the task and the other their concern for the people under them. These dimensions are the same as those used by the Ohio State Leadership Studies, presented as “Consideration” and “Initiating Structure,” and the dimensions of “employee-centered” and “production-centered” from the Michigan Studies. Blake and Mouton make numerous references to the Ohio State studies, which found that some managers are more concerned with solving tasks while other managers are more occupied with their relationships with subordinates. Additionally, some managers exhibit the same degree of focus on both dimensions at the same time.

This framework presents leadership style as a combination of the emphases that managers put on achieving results (task orientation) and on the relationship with the subordinates (people orientation). The theory regards the two elements in leader behavior as being independent of each other. Consequently, the emphasis that one manager puts on one dimension does not determine how much emphasis he or she puts on the other. Leadership style can, therefore, be presented as areas in a two-dimensional system. The grid consists of a quadrate with Concern for Production on one axis and...
Concern for People on the other. Blake and Mouton did not intend the leadership style to cover all aspects of leader behavior. Rather, they sought to provide clear patterns in the basic behavior of leaders. For the sake of simplicity, the axes are ranked into areas from one to nine. However, Blake and Mouton describe only five of these styles, which they regard as the most basic ones. A deliberate and important omission is the lack of a zero point. A minimum of concern on both axes is mandatory because leadership would collapse if a manager were not to exhibit any concern for the production or the people, or both. Blake and Mouton emphasize that the exercise of leadership involves a task to be accomplished and people to do it. These two concerns are interdependent; one cannot be had without the other.

**Leadership Style**

Blake and Mouton define style as “patterns of basic behavior.” These patterns are described by two orientations:

Concern for production. This concept must be related to the nature of the organizations and the products and services rendered. Production refers to whatever an organization hires people to accomplish. Concern for production does not indicate the amount of actual production achieved but instead the character or strength of assumptions behind the concern.

Concern for people. Concern for people is revealed in many different ways. It may manifest itself as efforts to induce subordinates to like the manager or to ensure good working conditions, or it may involve the manager trusting the subordinates and giving them responsibility. Depending on the character of the concern, subordinates may respond with enthusiasm or resentment, with involvement or apathy, and so on. Once again, concern for people does not measure what the managers achieve but indicates the character or strength of assumptions behind the concern.

Blake and Mouton present an overview of research and theory which describes behavior on the basis of these two dimensions. Factor analyses have strengthened the conceptual analysis, confirming that most of the variance in behavior can be explained by these two dimensions. Blake and Mouton concluded, therefore, that a framework for analyzing leadership behavior based on these dimensions is sufficient for understanding managers’ assumptions and actions. The five basic leadership styles are as follows.

- **Authority-obedience.** This style is characterized by a manager who displays maximum concern for production combined with a minimum concern for subordinates. This kind of manager concentrates on maximizing production by exercising power and authority and by achieving control over people by indicating what they should do and how they should do it.
- **Country-club management.** A manager with this style has maximum concern for his or her people combined with a minimum concern for production. Primary attention is placed on amiable feelings among colleagues and subordinates, even at the expense of results.
- **Impoverished management.** This style is characterized by a manager with minimum concern for both production and people. This kind of manager does only the minimum required to remain in the organization.
- **Organization-man [sic] management.** This style is characterized by a manager who holds “go-along-to-get-along” assumptions, which are revealed by his or her conformity to the status quo.
- **Team management.** This style integrates concerns for both production and people. It is a goal- and team-oriented approach that seeks to gain optimum results from everyone who can contribute through participation, involvement, commitment, and conflict solving.

**Importance**

**Explanations and Measurement of Leadership Style**

When managers face a situation or problem they will act on the basis of a subjective assessment of what is at hand. This assessment includes assumptions of what the facts and possibilities are and of what are reasonable courses of action. These assumptions become part of a manager’s beliefs or attitudes, and they guide and shape behavior. A theory of leadership is possible because there are only a limited number of assumptions on how to achieve results with and through other people. The dominant
leadership style may be explained by the manager’s personal background and work experiences.

It is not clear from Blake and Mouton’s writings whether assumptions cause beliefs and attitudes or vice versa. Although Blake and Mouton state that managers’ actions stem from their basic attitudes, the use of concepts is inconsistent; Blake and his later collaborator McCanse claim that the grid model describes attitudes and behavior. A reasonable interpretation is that Blake and Mouton regard attitudes as forming the basis for the leadership styles. In relation to leadership style, it captures the attitudes to elements highly relevant to the manager, that is, how important it is for the manager to exhibit concern for the subordinates and for solving the tasks. Blake and Mouton stress that the style variables are attitudinal and conceptual, with behavioral descriptions derived from and connected with the thinking that lies behind action.

For educational or training purposes, Blake and Mouton developed a questionnaire to measure leadership styles. The questionnaire is not, however, extensive, and the items are phrased in such a way that the managers are tempted to respond dishonestly. In fact, Blake and Mouton warn the respondents against self-deception when they are answering the questionnaire. Blake and McCanse presented a revised version of the questionnaire, but they do not provide the data regarding the reliability and validity of this instrument.

**Leadership Style and Effectiveness**

Blake and Mouton offer no definition of effectiveness, and they use the concepts of effectiveness, productivity, goal attainment, and performance indiscriminately. The concept of career has also been used as a criterion. It is evident that Blake and Mouton considered goal attainment to be the most central, as it is part of their definition of leadership, namely, the attainment of the organization’s goal. It is perhaps telling of their focus on the consequences of leadership styles that the subtitle of their 1985 book *The Managerial Grid III* states: “A new look at the classic that has boosted productivity and profits for thousands of corporations worldwide.”

Blake and Mouton are the most vocal advocates for a universal leadership theory. They insist that there is one—and only one—leadership style that is best: team management (9, 9 style on the grid previously mentioned).

The managerial grid theory got caught up in the crossfire between the universal and the contingency theories. Drawing from their 15 years’ experience as participants and observers in groups linked to research institutions, Blake and Mouton became convinced that there is one best way to lead. They formulated this claim through the years with varying degrees of specificity and rigor and maintained forcefully that effective leadership is *not* contingent on the situation, directly in opposition to Fred E. Fielder. Blake and Mouton’s own research provides scientific support for their stance, and they have presented strong logical arguments for the prominence of the 9, 9-leadership style.

Blake and Mouton have also referred to investigations which show that the 9, 9 style is superior to other kinds of behavior. Other researchers, especially P. E. Mott, have also supported their conclusions. Research indicates that a leader can influence the performance of subordinates positively by increasing the concern for both production and people. Blake and McCanse claimed that the strength of the grid model lies in the facts that it is possible to link observable behavior together with inherent assumptions and that the behavior is linked to its consequences. In that way, it is possible to claim that the grid model describes, explains, and predicts the effects of leader behavior.

Blake and Mouton do not explicitly describe how their theory was generated. However, the Ohio State studies did influence them strongly. It is evident that Blake and Mouton did not perform empirical studies to generate the two dimensions but instead synthesized the works of others and combined them with their own experiences. David J. Cherrington has claimed that there is no consistent support for the grid model and that its positive reception is actually based on well-known research that has been generously interpreted to support their theory. The managerial grid theory does not describe the five leadership styles on a sound scientific basis, and the antecedents behind the style behavior leave much to be desired.

Blake and Mouton are ardent proponents for a universal leadership theory, claiming that team management (9, 9) is the best leadership style. The universal theories were contested when Fiedler presented his theory of contingency. It is perhaps the
irony of fate that the universal stance has regained precedence owing to first the work of David C. McClelland and especially the transformational leadership theory. Both of these contributions use the same argument: There is one best way to lead. Is it team (9, 9) managers, or power-motivated managers, or transformational managers? Whatever the answer may be, the managerial grid theory is one of the most influential theories of leadership and has influenced millions of managers around the world.

Jon Aarum Andersen

See also Contingency Theory of Leadership; 
Organizational and Managerial Wisdom; 
Organizational Effectiveness; Situational Theory of Leadership; Trait Theory of Leadership; 
Transformational Theory of Leadership

Further Readings


MANAGERIALISM

Managerialism refers to the power and control of managers and administrators within and over the organizations that employ them and, from a historical perspective, to the era of capitalism characterized by managerial power and control. While managerialism is sometimes used to describe managerial power, the term is inherently normative and is couched in a sense that managers are powerful relative to others and might misuse this power if there is insufficient control over them. Managerialism provokes an examination of the purpose of the corporation and the instrumentality of corporate management in achieving this purpose. This entry reviews the emergence of managerialism and sketches the range of existing responses to it.

Fundamentals

According to management theory, management positions—most notably executive positions—are rightfully and necessarily power laden. Executive managers must exercise power in order to execute their responsibilities within a context of uncertainty and competing interests. As those occupying executive positions are entrusted with decisions that are complex, nonprogrammable, and significant in their impact; the criteria for selecting executives should include the requisite judgment needed to make such decisions. Those in executive positions should therefore understand the nature of their responsibilities and should meet these responsibilities through the execution of sound judgment and the appropriate use of power. Also, according to management theory, executives should be accountable for their decisions and actions, and their discretion or latitude is limited by a series of exogenous (i.e., legal, ethical) and endogenous (organizational, personal) factors. Therefore, managerial power should be substantial but should also be limited by checks, balances, and constraints.

In the early 20th century, Adolf Berle and Gardiner Means detailed the emergence of a force that challenged the assumption of adequate checks and balances. Many large U.S. corporations, which had started as private entities owned by a few, had become “modern,” publicly held corporations whose stock was traded in public equity markets. With public market trading and the liquidity it offered in the buying and selling of stock, there were now many owners of a given corporation, with many owning relatively few shares of its stock. Corporate ownership had become passive and diffused. As the concentration of ownership among a few large
owners or block holders indicates active, controlling ownership, an implication of the diffusion was that owners had much less ability to control the firms in which they had invested. Ownership and control had become separated, and something was awry in terms of checks and balances on corporate management. Those employed as corporate managers were often managing and controlling the firm, and the age of managerialism had begun.

The concept of managerialism is inherently normative; it is embedded in the legitimacy of managerial power and control relative to others. Responses to managerialism regard how executives should prioritize the interests of various constituents and their own self-interest in managing the corporation. The response to managerialism based on agency theory rests on reestablishing the dominance of owner control over manager-agents. Agency theory puts forth that if left to their own devices, managers will overly diversify and overly grow their firms at the expense of shareholders and shareholder value maximization. Agency theory-based solutions to managerialist tendencies include monitoring managers, incentivizing them to think like shareholders, and empowering boards of directors to replace errant executives. Agency theory assumes that the corporate control system will continue to evidence a tendency toward managerial self-interest, as self-interest is a basic assumption about human behavior. Yet agency theory espouses that maximizing shareholder value is the appropriate overarching corporate goal and corporate governance mechanisms, such as executive compensation, and the board of directors can keep management on track toward achieving it.

Another response to managerialism is associated with critical management studies (CMS). Here, managers are thought to be a powerful class or elite. Managers are trained to view themselves as such in their business degree programs, in which agency theory dogma about the behavioral assumption of self-interest is used to rationalize and perpetuate managerial self-interest. Some CMS adherents view managerialism from a Marxist perspective; that is, those entrusted to manage large organizations are not trustworthy, and the realignment of corporations to maximize shareholder value as an overarching goal is illegitimate. Other CMS advocates are a bit less radical and are somewhat in sync with stakeholder theorists about improving, rather than abandoning, the corporate system and redirecting managerial power.

According to stakeholder theorists, while shareholders contribute their financial capital to the firm and are to be rewarded for doing so, the human capital of employees also matters very much to the firm’s value creation. Here, the perspective is to evolve firms further, so that employees, those who invest their human capital in the firm, will become a larger force in strategic decision making relative to their historic and current roles. And the responsibilities of the corporation to society also deserve greater prioritization by corporate management, as had been noted decades ago by Berle and Means.

But stakeholder theory has yet to articulate well how various stakeholders’ interests, including managerial self-interests, might or should fit together to best affect the firm and its strategy. There is concern that if managers are granted more discretion to serve as stewards of the corporation rather than as shareholders’ agents, they might instead engage in a greater level of managerialism. Others contend that institutional and other large block holders could come to represent a broader set of stakeholder interests, as public pension plans now do in the United Kingdom, and in so doing establish and legitimate shareholder control over the 21st-century corporation. Although managerialism was detected decades ago, there is further work to do in developing a workable solution to it.

Marguerite Schneider

See also Agency Theory; Critical Management Studies; Stakeholder Theory; Stewardship Theory; Upper-Echelons Theory

Further Readings

Managing Diversity

Managing diversity is an umbrella term for the strategies and practices organizations use to manage a diverse workforce. The term originated in North America but is now used in many different parts of the world. Managing diversity initiatives usually target diversity dimensions that are visible in employees’ physical characteristics (e.g., differences due to gender, race, age, and some disability conditions), but sometimes they encompass other, less visible dimensions (e.g., differences due to personality, hidden disability conditions, parental status, or cultural values). As organizational workforces become more diverse in terms of gender, race, age, and other demographic characteristics, organizations can experience both positive and negative effects. Demographic diversity may increase organizational innovativeness and productivity, because diverse employees bring a greater range of perspectives to bear on organizational decision making and are more likely to reach a wider range of customers in a diverse marketplace. However, diverse organizations also experience less employee commitment, more employee dissatisfaction, higher turnover, and greater intergroup conflict. As a result, organizations are increasingly investigating strategies designed to manage diversity and help them to achieve the best possible outcomes from a diverse workforce. The following entry will present the alternative diversity perspectives that organizations adopt in their diversity management efforts and describe three diversity practices (diversity recruitment, diversity training, and mentoring) that organizations can use to attract, develop, and retain a diverse workforce.

Fundamentals

Managing diversity is generally viewed as having two distinct components. One component involves the organization’s overall philosophy or perspective on diversity. Organizations may adopt one of three distinct perspectives reflecting management’s beliefs about the best way to manage diversity: discrimination-and-fairness, access-and-legitimacy, or integration-and-learning. The second component involves the specific practices or initiatives that the organization uses to manage diversity. Managing diversity practices are usually voluntarily adopted by organizations, and these efforts are often broader and more proactive than the requirements imposed by equal opportunity legislation. Three of the most common diversity management initiatives are diversity recruitment, diversity training, and mentoring programs. The two components of managing diversity are related, because an organization’s diversity perspective is likely to drive the organization’s choice among alternative diversity management practices.

Diversity Perspectives

The discrimination-and-fairness perspective focuses an organization’s attention on providing equal opportunities in hiring and promotion, suppressing prejudicial attitudes, and eliminating discrimination in its practices. In this perspective, the organization consciously dismantles hurdles that might constrain its ability to attract a diverse workforce. But once in the organization, diverse hires are expected to assimilate into the dominant organizational culture. Therefore, the organization is more likely to adopt identity-blind practices that can be applied to all employees, rather than identity-conscious practices that focus on particular groups. For example, a discrimination-and-fairness organization might be more likely to develop a general mentoring program designed to develop junior staff and prepare them for promotion and less likely to develop a mentoring program targeting junior female staff with a focus on the unique problems experienced by female employees.

An access-and-legitimacy perspective is based on an organization’s recognition that its markets and customers are diverse. Therefore, it is beneficial for the organization to match that customer diversity with diversity in its workforce. Organizations adopting this perspective increase employee diversity but may concentrate on sales and service positions where diverse employees have direct contact with customer markets. As a result of this focus, an access-and-legitimacy consumer products organization might have high racial minority representation...
among its salespeople but might not experience parallel levels of diversity among middle and upper level management.

The integration-and-learning perspective suggests that the insights, skills, and experiences employees acquire due to their demographic group membership are valuable resources that the organization can use to rethink its primary tasks and redefine its business practices in ways that will advance its mission. Organizations adopting this perspective are motivated to find opportunities for diverse employees to influence one another and impact the organization as a whole. For example, if an integration-and-learning organization learned that older sales clerks had a particular approach to working with older customers that improved sales, the older sales clerks might be urged to teach their sales techniques to their coworkers, and the coworkers would be encouraged to try the new techniques across a broad range of customer groups.

**Diversity Management Practices**

In *diversity recruitment*, organizations are primarily concerned with increasing the diversity of their current workforce. Organizations strategically modify their recruiting activities to attract individuals with particular demographic characteristics. Usually, these modifications are designed to signal to prospective job applicants the high value the organization places on employee diversity. Some modifications focus on the content contained in recruitment materials. For example, an organization might include employee photos in their recruitment materials to highlight the demographic diversity within their current workforce or present pro-diversity statements in their recruitment materials. An organization might also advertise benefits that it thinks might be particularly appealing to certain demographic groups (e.g., highlighting part-time hours to attract retirees or promoting its on-site child care program to attract young mothers). Other modifications focus on recruitment channels. For example, an organization might work with community retirement groups to attract retirees or place its ads in a publication targeting new mothers.

*Diversity training* is a strategy designed to improve relations among organizational members, particularly between members of different demographic groups (e.g., female and male employees, younger and older employees, or racial majority and minority employees). The training may take several different forms. Awareness training is intended to make employees more aware of the cognitive processes that may lead to discrimination and differential treatment. Skill training is intended to provide employees with specific skills (e.g., conflict management, team building, or decision-making) that will equip them to work effectively in a diverse workforce. The two types of training may be administered in combination or in sequence, but because most organizational diversity training is offered as a short-term stand-alone program, awareness training is more common in practice.

Finally, formal *mentoring programs* are designed to retain diverse employees and help them to advance in the organization by developing cross-level relationships within the organization. Informal mentoring results when senior managers provide developmental support to more junior members of the organization, and research suggests that senior members are more likely to provide support to junior people who are demographically similar to themselves. As a result, employees from demographic minority groups may be less likely to attract mentors (especially senior-level mentors) and receive less mentoring attention. In formal mentoring programs, organizations deliberately pair senior and junior members in a mentoring relationship for a specific period (e.g., 6 months or a year) in order to develop the junior member's skills and help the junior member to advance. Some organizations are also experimenting with group mentoring programs and employee network groups that facilitate relationship building among peers rather than across organizational levels. Employee network groups are employee-initiated groups organized around a demographic characteristic that receive organizational support and recognition. For example, an employer might provide a meeting room for a small group of employees to assemble once a month to discuss the challenges associated with being a racial minority within the organization.

**Linking Diversity Management Perspectives With Diversity Management Initiatives**

An organization’s diversity management perspective is expected to impact the choice among these initiatives. Diversity recruitment, for example, is designed to increase diversity within the organization, a primary objective of access-and-legitimacy
managing diversity. Diversity training may help to reduce discrimination within the organization, an important goal for legitimacy-and-fairness organizations.

Organizations hoping to improve productivity across the entire organization (the objective of learning-and-effectiveness organizations) are encouraged to develop an integrated diversity management program that includes multiple diversity initiatives, because individual initiatives focus on different aspects of an employee’s employment. Diversity recruitment strategies might attract segments of the labor market that are currently underrepresented in the organizational workforce. However, as the workforce becomes more diverse, there is more potential for intergroup conflict, and so the organization is likely to adopt diversity training strategies to help diverse employees work effectively together. Further, because organizational diversity is frequently associated with higher turnover among both majority and minority employees, organizations may need to complement diversity recruitment strategies with retention strategies. Mentoring programs can play a useful role in employee retention because they encourage employees to develop extended networks that embed them within the organizational context.

importance

A large body of research has examined the effectiveness of each individual diversity management practice.

Diversity Recruitment Effectiveness

Including pictures of diverse employees and statements about the organization’s commitment to diversity in recruitment materials generally increases applicant attraction among women and racial minorities. However, these strategies seem to have no effect on applicant attraction among men and Whites. Therefore, these diversity recruitment strategies appear to be effective (and low-cost) strategies for organizations to use to increase the diversity of their workforces. They attract minority group members without discouraging major group members, enabling the organization to use the same recruitment advertisements to appeal to a broad labor market. However, most of the research on diversity recruitment has been conducted in experimental settings, so it is unclear whether recruitment ads targeting particular demographic groups will directly translate into greater organizational diversity. In addition, researchers have cautioned organizations against presenting an unrealistic picture of the organization—applicants who are attracted to an organization because of a pro-diversity message in its recruitment materials will be disillusioned if the organization does not deliver on that message on the job.

Diversity Training Effectiveness

Diversity training has received much criticism in the literature, but most of the criticism has been leveled at awareness training. There is little evidence that short-term awareness training has a sustained impact on employee stereotyping or discrimination. Diversity skill training, in contrast, has been demonstrated to deliver skill improvements. Unfortunately, most of the research on diversity training effectiveness has focused on short-run impacts, so it is unclear whether the diversity skills trainees exhibit during a diversity training program will be effectively transferred to the job.

Formal Mentoring Effectiveness

Research suggests that formal mentoring programs help diverse employees to achieve higher job and career satisfaction, larger salaries, and faster promotion rates. However, the research also suggests that employees with formal mentors experience less career success than employees with informal mentors. In other words, formal mentoring programs achieve only some of the positive effects associated with informal mentoring based on demographic similarity. The early research emerging on employee network groups suggests that they may be effective in reducing turnover among minority employees. Employee network groups facilitate relationships among minority employees that help to reduce the sense of isolation that might otherwise occur in a diverse organization. Employee network groups require little administrative or financial commitment from the organization, so they may be an inexpensive but useful option to include within an organization’s diversity management program.

Diversity Management Effectiveness

Unfortunately, while many studies have examined the effectiveness of diversity recruitment, diversity training, and formal mentoring as stand-alone
practices, very little research has examined the effectiveness of these initiatives when they are “bundled” into an overall diversity management strategy. In addition, very little research has examined how an organizational diversity perspective impacts overall organizational productivity. A few studies, largely case study analyses of individual organizations, suggest that an organization’s diversity perspective drives its initial choice of diversity management practices. Over time, as an organization becomes more diverse, and experiences more diversity-related challenges, it expands its portfolio of diversity management strategies and develops more effectiveness in diversity management.

Carol T. Kulik

See also Human Resource Management Strategies; Interactional Model of Cultural Diversity; Organizational Demography; Social Identity Theory; Theory of Organizational Attractiveness; Theory of Transfer of Training

Further Readings


Matrix Structure

Matrix management encompasses a series of efforts to lay one or more new forms of departmentalization on top of an existing form. Matrix approaches extend the classical school of administration’s analysis of organizational structure and offer a set of solutions to well-known and central organizational problems of task coordination and information processing. This entry describes the configuration of matrix structures, the purposes they serve, their strengths and weaknesses, their constituent elements, their relationship to other coordinative devices, and their utilization by large firms.

Fundamentals

Firms are typically structured around different forms of departmentalization: functions (e.g., sales, marketing, manufacturing, and research and development, or R & D), projects, product lines, geographic areas, customer segments, and so on. Matrix management encompasses a series of efforts to lay one or more new forms of departmentalization on top of an existing form (e.g., function by project, function by product line). Thus, if the existing form is the vertically organized functional organization, the new form of departmentalization is a horizontal overlay of project teams or product lines on top of the vertical hierarchy. As the new form of departmentalization grows more elaborate (e.g., as projects increase or product lines proliferate), the grid becomes more dense, and the structure approaches a full matrix structure.
The decision to adopt a matrix structure is strongly motivated by the desire to have the best of two or more forms of departmentalization used. Thus, in a typical function-by-product line structure, the firm seeks to maintain the advantages of functional organization (e.g., specialization, efficient use of resources, scale economies, focus on in-depth skill development, strategic control kept at the top of the firm) with the advantages of product line organization (e.g., coordination between functions, product focus and accountability, development of greater breadth in managerial training, flexibility in adapting to changing product needs, and maintaining proximity to the customer). The matrix is further adopted to solve problems of information processing and communication across functional personnel in firms with multiple ongoing projects, product lines, geographic segments, and so forth.

Of course, the matrix also possesses some of its own weaknesses. These include possible confusion over who is responsible for what, conflicts resulting from two competing hierarchies with authority over personnel, power struggles between functional and product line managers, the premium placed on teamwork and interpersonal skills, and development of common ground and goals across the multiple hierarchies. Robert Ford and W. Alan Randolph include a full review of the strengths and weaknesses of the matrix structure, and Thomas Sy and Laura D’Annunzio articulate the challenges of managing matrix organizations.

Matrix structures vary in terms of the structural and administrative elements that build upon one another to form more dense grids. The new departmentalization form can be structurally differentiated from the existing form, using a matrix director and matrix department. The two forms of departmentalization that the matrix comprises can exert dual authority in terms of supervision of shared subordinates (e.g., two-boss managers). Managers in the new form of departmentalization can have formal decision-making authority for administration, budgeting, and policy making. The matrix structure can also possess dual support systems (information systems, planning). Matrix structures are commonly linked with project management and project organization. Reviewing past uses of the term, Ford and Randolph in 1992 summarized the matrix as "cross-functional overlays that create multiple lines of authority and that place people in teams to work on tasks for finite periods of time" (p. 272).

The matrix structure is commonly viewed as the end point in a sequence of lateral coordinative arrangements. Long ago, Paul Lawrence and Jay Lorsch, and, Jay Galbraith proposed that these arrangements formed a Guttman scale in which the matrix elements build cumulatively upon one another. As firms seek to coordinate their internal activities, they sequentially install liaison roles, task forces, teams, integrators, integrating departments, and finally the pure matrix structure with cross-cutting forms of departmentalization. This series of coordinative mechanisms increases the firm’s capacity to handle uncertain tasks and their high information-processing demands. The more developed arrangements are appropriate for higher levels of task uncertainty and task diversity.

At the same time, matrix structures are not a typical end point in organization design but, rather, the midpoint between the two extremes of functional departmentalization and product departmentalization. The matrix is often a way station as firms (a) decentralize (move away from functional groupings) toward a product line structure and (b) centralize (move away from product lines or customer groupings) back toward the functional structure. Firms thus experiment with the matrix structure (for perhaps as much as 10 years) before shifting to a more dominant form of departmentalization.

There is very little empirical research on matrix structures but rather a lot of anecdotal and opinion-based articles. Lawton R. Burns confirmed that matrix arrangements do build upon one another in a Guttman scale, but he did not find evidence that matrix complexity is tied to the firm's task diversity and uncertainty. Burns and Douglas Wholey found instead that the adoption of matrix structures is heavily influenced by institutional pressures (mimicry of opinion leaders) rather than technical forces. There is a good deal of descriptive information on the functioning of matrix structures. One of the best known illustrations is Asea Brown Boveri (ABB), a global matrix firm (organized around business areas and countries) in the 1990s. ABB attempted three balancing acts simultaneously: be global and local, big and small, and centralized and decentralized. The case illustrates many of the managerial techniques utilized by ABB to make matrix structures work effectively.
Managerial thinking about matrix structures has evolved beyond two-dimensional grids of departmentalized forms to emphasize the inherent “ambidexterity” of matrix structures like ABB. Michael Beer and Nitin Nohria suggest that firms need to simultaneously balance multiple dimensions, such as a short-term focus on efficiency and exploitation (theory E) with a long-term focus on R & D and exploration (theory O). The focus on ambidextrous thinking has now joined matrix structures as a popular way to conceptualize cross-cutting dimensions.

Lawton Robert Burns

See also Bureaucratic Theory; Differentiation and the Division of Labor; Organizational Structure and Design; Principles of Administration and Management Functions; Strategy and Structure; Technology and Complexity

Further Readings


**Meaning and Functions of Organizational Culture**

Theories of organizational culture explain patterns of behavior within organizations in terms of relatively shared mental structures that influence how people make sense of their workplace reality and of the symbols and symbolic practices that maintain and reproduce these understandings. In 1983, Laura Smircich drew connections between different research themes on organizational culture and different concepts of culture rooted in anthropological research. This entry combines Smircich’s analysis with insights from later work to outline a socio-anthropological theory of what organizational culture is and how it affects organizational behavior. Understanding cultural processes in organizations is important to correctly interpret organizational phenomena and anticipate collective responses to managerial action.

**Fundamentals**

The notion of organizational culture draws on different research traditions in anthropology and sociology. By this term, organizational theorists generally refer to a pattern of belief structures that members of an organization share to varying degrees, which influences how they make sense of their reality and underpins the written and unwritten norms that regulate behavior in the organization. Among these belief structures, theorists often distinguish between *basic assumptions* and *espoused values*.

The former refers to deep understandings about appropriate ways of addressing fundamental problems in organizations: how to relate to the external environment and to the various stakeholders of the organization, and, how to regulate social interaction among its members. Examples of these understandings can be found in the degree of confrontation or in the level of intimacy that are considered acceptable within the organization. Basic assumptions tacitly operate below the threshold of consciousness: They are so deeply ingrained in our cognition that we take them for granted as a “natural” way of handling organizational problems.

Comparative research on cross-cultural management suggests that these assumptions often reflect the culture of the broader national or regional context within which the organization is embedded.
National cultures differ along several important dimensions, including the degree of inequality in the distribution of power that they consider desirable, their relative aversion to risk, their inclination toward collaborative versus competitive forms of interaction, and their preference for material versus expressive forms of interaction. These differences tend to reflect on the way people design organizational structures and incentive systems, exercise leadership, and, more generally, exercise the forms of interaction that they consider appropriate in the workplace.

In organizations, some basic assumptions are occasionally brought to the surface as espoused values—conscious definitions of appropriate and inappropriate behavior, made explicit in conversations and organizational communication. Ideally, espoused values correspond to assumptions that members perceive as essential—that is, as central to the preservation of the integrity and viability of the organization—and distinctive compared with other organizations. Essential and distinctive values reflect members' understanding of the “identity” of their organization. It may happen, however, that some of these values embody ideal, rather than current, cultural traits and do not really correspond to observed behavior. These values may rather manifest the need of members to feel good about themselves. Or they may reflect the attempt of organizational leaders to stimulate changes toward an envisioned new culture, or, to project an image appealing to external stakeholders.

Espoused values can therefore be misleading when it comes to capturing the fundamental assumptions that really influence behavior within an organization. Espoused values, however, are not the only manifestations of these assumptions. Members’ assumptions about appropriate ways of handling social interactions are also reflected in the organizational jargon they use, the stories they tell, the rites they engage in, the way in which they organize and furnish office space, and so on. All these visible, tangible, and audible manifestations of the organizational culture are usually referred to as organizational artifacts. In organizations, material, discursive, and behavioral artifacts not only express less visible values and assumptions but also contribute to their reproduction by structuring and constantly reconstituting social relationships and interaction.

Building on the hermeneutic tradition in cultural anthropology, some organizational theorists have highlighted the symbolic properties of these artifacts and drawn attention to the way in which the underlying meaning structures that constitute the basic assumptions of a culture are revealed and maintained by a system of symbols and symbolic practices. A symbol is an artifact that stands for a broader, more abstract concept or meaning. Organizational symbols usually include—but are not limited to—logos, buildings, visual images, and, often, milestone products. Even stories, slogans, and the organizational language itself perform an important symbolic function by sustaining the system of meanings that constitute the culture of the organization.

While a symbolic perspective on cultural analysis tends to envision members as “suspended in a web of meaning” of which they are only partially aware, recent research in cultural sociology has advanced the idea of culture as a “repertoire” or “toolkit” of resources that members can purposefully draw upon to pursue individual interests. This perspective on culture emphasizes individual agency in making flexible use of language, stories, symbols, rites, and other cultural material to inspire, enact, and justify different strategies of action. Applications of these ideas to organizations have emphasized how cultural change occurs as members are exposed to new and different resources that expand the repertoire that they can draw upon to formulate and implement new strategies.

Finally, while some organizational theorists view culture as an important lens—or “root metaphor”—through which to analyze organizations, others view culture as a resource in itself—a powerful tool to manage organizations. These scholars consider culture an important variable in the organizational system, along with strategy, structure, and system. Researchers in this tradition argue that shared values and assumptions influence employees’ commitment to the organization and support to its strategy, and it points to the opportunity for organizational leaders to influence these values and assumptions by engaging in various forms of symbolic action (communication, role modeling, punishing, and rewarding, etc.). Organizational artifacts are considered as symbolic devices that leaders can and should manipulate to shape deeper belief structures. The preferential use of the term corporate (rather than “organizational”) culture attests to the pragmatic, managerial perspective these scholars adopt, as they encourage leaders to build strong cultures to sustain corporate success. According to these scholars, cultures are “strong”
Meaning and Functions of Organizational Culture

when they are characterized by norms and values that are strongly held and widely shared throughout the organization. Available evidence from large-scale research, however, indicates only how strong cultures are associated with reliable performance (low variation over time) in relatively stable environments. In rapidly changing environments, instead, the strength of a culture is relatively less important than the adoption of norms and values that make the organization adaptable to change.

Whether organizational cultures are really as easily “manageable” as this literature optimistically suggests, however, is still questioned, because the fundamental functions that culture performs in organizations tend to make it intrinsically resistant to deliberate change.

Importance

The importance of culture in shaping the functioning and adaptability of an organization—but also its resistance to deliberate attempts at manipulation and change—is related to the fundamental functions it performs. In organizations, culture acts as a sensemaking device that guides members’ interpretation of events (and their response to them): It facilitates coordination and maintains social order, it acts as a social control mechanism, it conveys a sense of identity, and it provides resources to justify and give sense to organizational action.

The system of belief structures that constitutes a culture helps its members organize their experience of the world. It tells them whether an event is worth paying attention to, how to make sense of this event, and how to respond to it. It helps them classify people, and it suggests appropriate behavior when interacting with them. When exposed to different cultures, surprise, puzzlement, or irritation may arise from situations that our system of beliefs cannot comprehend or bring us to interpret in misleading ways. While the sensemaking function of culture helps reduce uncertainty about how to perceive, feel, and act in most situations, it also induces resistance to change, in that cultural changes require members of an organization to modify their definition of their workplace reality.

By defining appropriate ways to interpret and handle social relations and interactions, culture is important in the maintenance of social order. In organizations, cultural beliefs underpin the role systems, and the internal allocation of resources to different tasks (i.e., who does what, and, with what objectives and resources). It legitimates the distribution and the exercise of authority and power (i.e., who has the right or is allowed to decide what). People will accept a given distribution of tasks, resources, and power in an organization to the extent that it conforms to deeply ingrained cultural beliefs. Organizational changes that disrupt this social order may encounter resistance, not only because they alter the material conditions within which resources are allocated and power is exercised but also because they run against the deep assumptions that justify this equilibrium.

By indicating desirable goals and appropriate codes of conduct in different situations, culture also acts as a social control mechanism, encouraging certain types of behavior, and discouraging others in addition to the formal rules and structures of the organization. Culture, as a control mechanism, operates at two levels. Internally, in ordinary circumstances, culture brings us to act in relatively predictable ways, following taken-for-granted beliefs and norms that lie under the threshold of awareness. Deviance from these responses tends to be inconceivable, and, if considered, it tends to induce feelings of guilt or discomfort. Externally, culture subjects members to social control manifested in the embarrassment, disapproval, or outright punishment that the violation of cultural norms and values is likely to elicit. Social control is particularly intense in strong cultures, where conformity to collective norms and expectations is constantly reinforced by formal mechanisms and informal peer pressure.

Organizational cultures also perform an important expressive function in that some of the more visible manifestations of a culture—its symbols, its stories, its rites, its myths—help maintain a collective identity. Organizational culture supplies members with important cues for making sense of what their organization is and stands for. The underlying values that these symbols, stories, and myths allude to instill members with pride in the organization, its past accomplishment, and its distinctive traits. By doing so, they stimulate their identification and reinforce their commitment. Highly identified members, in turn, will be more cooperative and supportive of organizational strategies. While the loyalty and discipline of highly identified employees may increase their willingness to implement organization changes, however, these employees may also strongly
oppose changes that they perceive as violating their understanding of the identity of the organization.

The four functions of culture highlighted so far all address the intrinsic need of people and groups for stability and predictability—in their cognition, in their system of relationships, in their behavior, and in their sense of self. As the notion of “cultural toolkit” reminds us, however, culture does not act exclusively as a set of constraints, but also provides individuals with a more or less vast reservoir of “resources” that they can draw upon to justify and give sense to acts that may or may not conform to prevailing patterns of thought and action. In most cultures, the correspondence between symbols, stories, myths, and espoused values on the one side, and actual patterns of behavior on the other side is not perfect. Some artifacts may be remnants of the past, manifestations of latent or drifting values with little or no connection with currently dominant beliefs. Others may be open to multiple interpretation to suggest different implications for practice. It is this sense-giving function of culture that established or emerging organizational leaders may draw upon to induce changes in the culture itself, by drawing on this reservoir the symbolic resources they need to present proposed changes as reviving traditional values or as consistent with the cultural heritage of their organization.

Davide Ravasi

See also Competing Values Framework; Cultural Values; Management Symbolism and Symbolic Action; Organizational Culture Theory; Organizational Culture and Effectiveness; Organizational Culture Model; Organizational Identity; Typology of Organizational Culture

Further Readings


MODEL OF OCCUPATIONAL TYPES

See Occupational Types, Model of

MODES OF STRATEGY: PLANNED AND EMERGENT

The planned versus emergent modes of strategy can be traced back to the work of Henry Mintzberg and James Waters, in which they sought to distinguish between these two forms of strategy. In essence, planned strategy is one in which the ultimate intention of the strategy is explicit and clearly articulated. This strategy is crafted by the top management and gets communicated throughout the organization. The strategy is always in control, and as such, external forces have little effect on the outcomes of the planned strategy. The emergent strategy, on the other hand, does not have any intention relating to it. It relies on the flexibility of the organization and the environment (changes) to lead the organization to where it may be going. These two modes of strategy are now understood as a continuum, and organizations today often use both modes in complementarity. As such, it is critical to know the fundamentals, assumptions, and challenges of using these two modes of strategy, which is what this entry will show. Below, the background, applications, and contemporary research on both planned and emergent strategies are highlighted.

Fundamentals

The planned strategy mode is grounded in the design school of strategy. The design school emphasizes strategy formulation—that firms analyse both
their internal and external environments to help to
determine their strategies at the corporate, business,
and functional levels. Subsequently, the strengths-
weaknesses-opportunities-threats (SWOT) analysis
is commonly used to prescribe the strategic choice.
The fact that the planned strategy mode assumes
that an organization has complete control of its plan
over time toward its desired intention has resulted in
criticisms. For example, Mintzberg questions if an
organization can accurately assess its own strengths
and weaknesses when engaging in new activities that
it does not have prior exposure to. He also questions
why strategy should necessarily precede structure as
prescribed in the planned strategy mode. Moreover,
while making strategy explicit will allow all levels
in the organization to align their goals, it is likely to
cause inflexibilities when executing the strategy. The
allowance of separation of formulation from imple-
mentation in this school can also be problematic—
as the formulators need not be the implementers,
which can cause alignment issues.
The assumption of complete nonintention of
emergent strategy mode makes it hard to imagine
any organization using a pure emergent strategy.
Extensive work on the relative effects of industry and
firm attributes on firm performance also suggests
that a firm’s strategy and resources at best explain
30% of firm profitability, with industry explaining
about 10 to 20%. This leaves about 50% of firm
profitability unexplained. This literature thus lends
some support to the argument that planned and
emergent strategy modes are the two extremes of a
continuum, and organizations adopt a combination
of the two. Thus, the realized strategy of any organi-
zation is the outcome of realized planned strategy (a
portion of planned strategy) and emergent strategy.
The process school of strategy posits that strategy
evolves over time as both internal and external envi-
ronments of an organization change. In this school
of thought, more attention is given to market pro-
cesses, such as strategic interactions and learning.
As this school looks at both historical development
and observes the pace and path of change, it is com-
monly associated with the emergent strategy mode.
Advocates of the emergent strategy mode argue that
the boundaries set in the planned strategy mode
are highly unrealistic—that key stakeholders and
managers need to be involved in setting organiza-
tional strategy, that communications and commit-
ment are drawn from all levels of the organization,
and that every aspect of the strategy is planned and
controlled in a particular direction without disrup-
tions. Organizations should instead have a flexible
view and structure to cater to unforeseen circum-
stances that arise during the course of the execution
of any intended strategy.

As learning and experiential learning take center
stage on the strategizing processes, emergent strat-
egy mode is argued to be becoming more prominent
in today’s strategy understanding. For example, it
is a good planned strategy to engage in a strategic
alliance, yet an emergent strategy has to be in place
as partners would have to learn and adapt to each
other once the alliance is formed. More recent work
in the planned-emergent strategy mode discussions
has suggested that while prediction characterizes
researchers’ understanding—that what can be pre-
dicted can be controlled—we need to recognize that
when the market is highly uncertain, prediction does
not necessarily mean control. This latest differentia-
tion is still in its infancy but will extend our under-
standing of the planned-emergent strategy modes
significantly.

The comparison of planned and emergent strat-
egy modes also raises questions to research on
the decentralization of decision making, planning
horizons, environmental scanning and uncertainty,
and internal organizational structure that enhances
flexibility. In each of these fields, researchers need
to find balance in accommodating an environ-
ment that is predictable in some dimensions but
unpredictable in others. It is important to note that
Mintzberg and Waters further suggest that there are
other forms of strategy modes that come in between
the planned-emergent continuum. Those proposed
include entrepreneurial, ideological, umbrella, pro-
cess, unconnected, consensus, and imposed strategy
modes, but they are by no means exhaustive.

Siah Hwee Ang

See also Environmental Uncertainty; Management by
Objectives; Strategic Decision Making; Strategies for
Change; Strategy-as-Practice

Further Readings
theory of strategic business exit in dynamic
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24–36.
MORAL REASONING MATURITY

The primary aim of theories of moral reasoning maturity is to facilitate scholars’ understanding of the ways in which people form moral judgments in regard to issues involving ethical complexities. These theories form part of the broader theoretical domains of moral psychology and descriptive ethical theory, which emphasize individual factors in ethics and morality, and are guided by the view that questions of ethics are subjective and contextually sensitive. Their reliance on abstract reasoning (like most moral psychology theories) places considerable emphasis on reason, in contrast to affective or intuitive processing, as the main form of cognitive process which affects moral judgment. These theories are heavily based on, and continue to draw from, the long Western tradition in European philosophy from the ancient Greek to moral philosophers of more recent times (primarily Immanuel Kant and John Rawls). Theories of this type have two central premises. First, it is assumed that certain intrapersonal dynamics, tied to capacities of cognitive maturation, affect a person's moral reasoning when confronted with a moral dilemma in a given context. These theories are part of a larger body of work of cognitive developmental theory in moral, developmental, and social psychology. They assume a link between cognitive maturity and moral reasoning, and between moral reasoning and subsequent moral action. The second assumption lies in its conception of a staged process of development. The path toward maturation is seen as unidirectional, and development is formulated as an incremental progression from lower to higher stages of moral maturation. Particular regard is paid to the ethical and psychosocial maturity of the individual, as manifested in their cognitive patterns of reasoning. Accordingly, theory in this area examines the individual dynamics that affect both moral awareness and moral decision making, as distinct and complementary domains to situational descriptive ethical theories. These theories outline an approach to problems of management morality and business ethics. They usefully inform various debates in areas that share a common interest in the ways in which individual factors impact management ethics and morality, from public policy to healthcare, corporate governance, and stakeholder agency problems. This entry continues with an examination of the most prominent theories that have influenced thought and practice in this area, these being Lawrence Kohlberg’s cognitive moral development theory and Jane Loevinger’s theory of ego development. The second section outlines the contribution of Jean Piaget to the development of this theory, with particular reference to subsequent adaptations, leading thinkers, and the circumstances that influenced the growth of these theories. The final section surveys some seminal works in this area that continue to contribute to the development of the theory.

Fundamentals

Broadly speaking, there are two prominent cognitive developmental theoretical frameworks of moral reasoning and maturity, both of which are post-Piagetian. Each focuses on the dynamics of cognitive meaning making that motivate certain kinds of reasoning to inform moral judgment or broader decision-making practices. The first of these, Lawrence Kohlberg’s cognitive moral development theory (CMD), focuses more narrowly on the development of a person’s capacity for understanding moral dilemmas and reaching moral judgment via moral reasoning. The second, Jane Loevinger’s theory of ego development, evolved as the core constructivist post-Piagetian cognitive developmental theory, and focuses on a broader examination of the cognitive
structures of meaning making that guide adult psychosocial maturation. The scope of Loevinger's theory thus extends to incorporate a broader range of issues that involve more judgment via reasoning than morality dilemmas alone. It assumes that moral issues are indirectly involved in the broader question of how the self relates to others and its inescapably social nature. Loevinger (and a number of other prominent developmental psychologists in the United States) made significant contributions to the development of ego stage theories, building directly on the work of Anna Freud after her move to America. Accordingly, Loevinger's theory is heavily influenced by Freudian psychoanalytic psychology: its concern regarding the destructive role of unconscious emotional processes and the optimistic belief that evolution of reason segues to superior moral judgment and superior moral action. A primary concern of both theories is the need to respond to the increasing subjectivity and relativism of adult social relations as moral beings. Consequently, they are especially concerned with understanding how to balance the need for autonomous agency and identity independence with the interests of others, and the dominant cultural moral norms embedded in social relations that regulate behavior and expectations.

Kohlberg’s theory initially defined six developmental stages of moral reasoning, based on the development of moral cognitive structures as per the Piagetian concern with the role between accommodation and assimilation in cognitive maturation. These stages can be grouped into three levels of cognitive moral reasoning: preconventional, conventional, and postconventional. A concise breakdown of Kohlberg's seven stages might be considered as follows. The first two levels, preconventional and conventional, both comprise two consecutive stages. In Stage 1 of the preconventional stage, the resolution of moral dilemmas is facilitated primarily through obedience and the avoidance of punishment. In Stage 2, resolution is founded on narrow and self-interested moral calculation. Stages 3 and 4, composing the conventional level, are oriented toward conformity, with morality predicated on respect for authority and the maintenance of the status quo. The postconventional level in Kohlberg’s theory initially comprised two stages, before the addition of a final stage of moral maturity in his later work, bringing the number of stages in this theory up to seven. Stages 5 and 6 describe morality oriented toward the common good and the establishment of a social contract, alongside a broader concern for autonomous action oriented toward adherence to universal human ethical principles, rather than consensus. These stages can therefore be characterized by choices of moral action that are at odds with the current status quo and authority. Kohlberg’s seventh stage has been seen as an attempt to go beyond an exclusively cognitivist-rationalist approach to morality by reintegrating intuitive responses to moral dilemmas, thus including natural law and intuitive approaches to morality. This integration is known as \textit{dual processing moral reasoning}.

Central to Loevinger’s theory of the key dynamics of ego development are the constructs of differentiation and integration. Loevinger’s work has been considerably influenced by biological observations of evolution, in which the growth and development of living organisms is predicated upon their ability to differentiate themselves from their surroundings and other organisms. Loevinger’s seven stages represent hierarchically layered plateaus, or equilibria, of increasing cognitive differentiation in an individual’s capacity for reasoning. As such, each stage constitutes a distinct way in which the individual interprets social reality and makes judgments that produce socially meaningful action. Constructivist stage theory posits that each stage of global meaning making represents a different epistemology, or way of knowing. Loevinger’s formulation avers the importance of structuralist approaches to cognitive development. The Sentence Completion Test (SCT), published by Loevinger, Le Xuan Hy, and Kathryn Bobbitt in 1998, is the core measure in this theory.

A concise breakdown of Loevinger’s seven stages might be considered as follows: (one–two) the pre-social and self-protective stages, in which reasoning is often based on stereotyping and conceptual confusion; (three) the conformist stage, characterized by a dependence on clichés and simpler cognitive patterns; (three–four) the conscientious-conformist stage, in which reasoning exhibits increasing conceptual multiplicity but lacks complexity; (four) the conscientious stage, with increased conceptual complexity and patterned reasoning but with particular concern for decisions that value communication; (five) the individualistic stage, characterized by a cognitive style that acknowledges the distinction between process and outcome but exhibiting a concern that decisions creating dependence and interdependence are
problematic; (six) the autonomous stage, with high conceptual complexity, reasoning oriented toward complex patterns, broad scope, objectivity, tolerance for ambiguity, and an awareness of the broader social context; and (seven) the integrated stage.

The concept of integration is a central premise of moral development theory, but there have thus far been few inquiries into the nature of its core mechanisms, and questions remain as to what precisely is being integrated. In Loevinger’s theory, integration refers primarily to the reintegration of affect and intuition with reason. Loevinger’s seventh stage is therefore defined by a capacity for reason and the navigation of the social world based on a “dual knowledge epistemology,” as with Kohlberg’s seventh stage. This advanced capacity for cognition is based on an integrated intuitive and rational dual processing that gives rise to a processual capacity for morality, enabling authentic action and a nuanced approach to problems of morality and relatedness. Integration, therefore, represents a significant departure from the earlier autonomous stage, in which, with recourse to reason alone, an individual may not be able to overcome an obligation to reproduce expected social or cultural norms in a given context. While reasoning may be sound in these latter cases, it may not be translated into congruent action; the course of action chosen is incompatible with less conscious inner feelings. In such cases, the obsessive pursuit of reason in instances of moral judgment is seen to trigger various defense mechanisms caused by suppressed or unexplored affect. For Loevinger, integration is an advanced stage of character and identity maturation that enables what William Perry in his work conceptualized as a capacity for developing committed action in the midst of relativism.

Evolution

Theories of moral reasoning maturity are heavily rooted in the Piagetian contribution to developmental and moral psychology. Jean Piaget (1896–1980) is one of the most influential theorists in developmental psychology and continues to influence theory in a number of cognate disciplines, including moral theory and applied moral theory, psychology and adult development psychology, theory on learning, educational theory, and organizational behavior. It was Piaget who showed that both the psychological and epistemological progression of knowledge and morality is structured in hierarchically layered stages of continuous development. The development from the least to the highest stage of moral and psychosocial maturation is marked by three levels of achievement: the development of formal operations, the development of abstract critical thinking, and mastery. This theory holds that development toward formal operative cognition is a result of the interaction of two processes: accommodation and assimilation. The achievement of formal operations takes place in early adulthood but no later than the 24th year of age.

The work of Loevinger has in turn influenced a number of more focused studies, including William Perry’s theory of intellectual and ethical development during college years, Theodor Adorno’s typology of prejudiced and unprejudiced meaning making, Erich Fromm’s ego types, and Lawrence Kohlberg’s ego, moral, and cognitive stages of development. The theories of Loevinger and Kohlberg make epistemological assumptions that extend across a number of theoretical domains ranging from philosophy to biology. These traditions all emphasize the construct of integration and the importance of the relationship between differentiation and integration, as a core mechanism underlying the growth from lower to higher stages of maturity.

Kohlberg’s theory informs the work of James Rest on the underlying cognitive process for moral decision making, including his Defining Issues Test (DIT), a highly reliable and respected measure for moral judgment, which is an alternative measure for Kohlberg’s stages of moral reasoning. Rest’s work has sparked further advances in theory on moral reasoning, and questions the primacy of the effects of individual factors on moral reasoning versus those of culture, in a way reminiscent of Kohlberg’s own addition of a seventh stage of morality in his later work, which focuses on a dual processing between reason and intuition. Critics of Kohlberg maintain that his theory unduly prioritizes a concern for justice as the key variable to the exclusion of other important moral values in adult cognitive moral development. Furthermore, some critics have identified that the empirical testing on which it is based is overwhelmingly based on males. Carol Gilligan has since developed a complementary theory, showing that often women’s moral maturation proceeds in a sequence strongly reminiscent of Kohlberg’s but in content oriented toward reasoning based on a concern for care rather than justice.
Important early works included that of William Perry on moral and intellectual development during college years. More recent influential work has been done by Robert Kegan and Lisa Laskow, building upon the foundation laid by Loevinger in bridging between upper end stages of developmental cognitive psychology with postmodern self theory. An impressive theoretical study evolving out of the work of Loevinger and that of other developmental theorists that seek to understand the processes involved in the upper end, or postconventional, stages of moral development has been undertaken by Suzanne Cook-Greuter. This work reviews a number of specialized stage theories that are congruent with those of Loevinger and Kohlberg in their focus on hierarchical complexity (work emphasizing structural aspects of higher level cognition) and dialectical thinking as meta-systematic cognitive organization forms.

Most of the theories of moral reasoning maturity have been profoundly impacted by an assumption about the foundation of ethics lying in rationality. A cognitivist approach to moral maturation is still the predominant approach in moral psychology. These have been linked with assumptions on ethics and morality based on an idealized quest for identity autonomy rooted in modernity. Some of these assumptions have been profoundly critiqued and rejected by contemporary postmodern moral philosophers, such as Judith Butler. And yet much of the recent work to develop theory on the highest stages of postconventional morality seem congruent with trends in postmodern moral philosophy, though this as yet lacks theoretical clarity.

Importance

The impact of these researches has thus far been largely confined to the theoretical sphere. This is likely due to the conceptually dense nature of the constructs and processes involved in both Kohlberg and Loevinger's highest stages of moral and psychosocial maturity (a fact Loevinger herself acknowledges). These theories remain difficult for nonspecialists to understand and are to a large extent underexploited by management and organizational researchers and practitioners alike. Regarding the highest stages concepts of moral maturity in Kohlberg and Loevinger, it is worth noting their being in harmony with the latest social intuitionist theorists, such as Jonathan Haidt, who argue on the primacy of intuitive moral processing, influenced by David Hume and Scottish philosophy of the 18th century.

In recent years, there has been a burgeoning effort to understand the ways in which managers approach moral dilemmas and, importantly, the degree to which the decisions they make evidence their moral awareness and patterns of cognition. Through several decades of such research, empirical findings consistently show that for a majority of managers, moral reasoning dilemmas are being resolved predominantly at the conventional stages of moral reasoning (earlier than stage five). In the wake of the abundance of corporate corruption scandals involving immoral or amoral management after the 1990s, various areas of organizational and management research have shown a renewed desire to understand why so few adults and managers demonstrate postconventional stages of reasoning. A respectable body of empirical research on constructivist stage development shows that the highest stages of development have unfortunately been supported with little evidence as to how and why only a minority of adults proceeds from conventional to postconventional moral reasoning, with some researches placing the rate of postconventional maturation at 1/100. Thus, critique has focused on the practical usefulness of these theories, as moral maturation is increasingly recognized as the complex process that it is. Not unrelated to these critiques are increasing doubts as to whether the basic theoretical premise of the stage-type evolution of moral maturity, with its implication that an adult can arrive at a higher level of moral responsibility only after passing through all lower stages, is an altogether sound assumption. Competing noncognitivist theorists on moral judgment have pointed out that empirical data show a weak link between cognitive moral judgment and actual behavior, while others argue that these staged developmental models underplay the role of intelligence in higher moral reasoning capacity. These critiques have motivated considerable inquiry to validate further the core stage assumption of this theory.

Moral development theory has profoundly influenced research, knowledge creation, and the development of learning interventions in higher education by a number of prominent theorists in learning and education. Notable are David Kolb’s experiential theory of learning and development, Baxter
Magolda’s quantitative measure of self-authorship, drawing from the work of Robert Kegan, and the theory on the development of reflective judgment. In addition to its contribution to management education, through various frameworks for student development in management studies and the teaching of business ethics, these theories have also influenced research into leadership and leadership development. The empirically researched and theoretically rigorous contribution of Bill Torbert and associates is based on constructivist development psychology rooted in Loevinger, but it is adapted to be easily understood and relate to various role challenges in the managerial job family. While it is not unusual for managerial development interventions to be theoretically informed by Kohlberg’s moral cognitive development theory, the pool of insights and approaches that this body of theory offers has yet to be fully exploited by the practitioner community.

Kleio Akrivou

See also Ethical Decision Making, Interactionist Model of; Experiential Learning Theory and Learning Styles; Fairness Theory; Intuitive Decision Making; Management (Education) as Practice; Organizational and Managerial Wisdom

Further Readings


MULTICULTURAL WORK TEAMS

Multicultural work teams are a means of organizing work where two or more individuals from different cultures work together to achieve a common goal. Globalization, the rise of multinational organizations, and the general need to cross international borders in order to conduct business contribute to the prevalence of multicultural work teams. Multicultural work teams are uniquely positioned to provide benefits to organizations such as extensive knowledge of product markets and cultural savvy in how to conduct business in the local cultures. Research on multicultural work teams is focused on how to realize the benefits of culturally diverse teams while effectively managing the challenges they face such as distributed communication, differences in work norms, and language fluency issues. Theories explicating multicultural work team effectiveness and key characteristics of multicultural work teams are discussed in the following sections of this entry.

Fundamentals

The idea that cultural diversity can enhance team performance is based on cognitive resource theory. Cognitive resource theory suggests that diversity in a team can serve as an indicator of available knowledge and differing perspectives. The cultural diversity of multicultural work teams can indicate an important breadth of cultural knowledge, perspectives, cognitions, and languages needed for the team to meet its objectives. As an illustration, a multicultural product team may have an engineer at company headquarters in Germany, a marketing
professional in the United States where the product will be sold, and a procurement specialist at the manufacturing facility in Mexico. These culturally diverse team members may have important insights into the local cultures involved with getting the product to market. The procurement specialist may have an in-depth understanding of shipping and procuring product parts in Mexico. The marketing professional may have an in-depth understanding of the U.S. consumer market. The engineer may be able to navigate the culture of the organization and ensure the product is consistent with the organization’s standards and values. The cultural diversity of the team helps the organization effectively design, manufacture, and market a product in a global environment.

Cultural diversity may signal the availability of relevant knowledge and differing perspectives, but effective information elaboration is needed for the team to benefit from the diversity. Information elaboration involves information exchange and knowledge integration. Factors such as a shared understanding of the task, team trust, and culturally intelligent leadership help support the information elaboration process.

While cultural diversity is the strength of multicultural work teams, it can also present challenges. Similarity-attraction theory and social categorization theory suggest potential difficulties as diverse team members interact. The similarity-attraction theory suggests that culturally homogeneous teams should be more productive than culturally diverse teams because of the mutual attraction shared among team members with similar backgrounds. Real or perceived differences in cultural values, such as work norms and respect for hierarchy, and the use of different styles of communication (e.g., low or high context) may lead to less efficient team processes, decreased social cohesion, or increased conflict. Similarly, social categorization theory suggests that team members categorize other team members into subgroups, which can form the basis for an in-group–out-group distinction. Team members may develop an intergroup bias in some conditions and favor and cooperate with members of their in-group more than with members of an out-group. As such, team members from the same culture rather than different cultures may be more attracted to and cooperate more with one another, making cross-cultural collaboration difficult. For example, team members fluent in the same language may be prejudiced toward those from other backgrounds and may preferentially provide opportunities for development or assign a coveted task to those who share the same primary language or accent. Acknowledging team member differences, emphasizing team goals, and fostering a shared team identity are some of the ways the negative effects of similarity-attraction and social categorization can be mitigated.

Finally, multicultural work team members are often distributed across time zones and locations, which can complicate team member coordination. Multicultural work teams often meet virtually and rely on communication technology to bridge distances and time. Trust between team members can be difficult to develop and more fragile in virtual teams. Occasional face-to-face meetings, explicit time and goal management, and emphasizing the team’s shared goals are common in high-trust virtual multicultural work teams.

Multicultural work teams are not a panacea. Potential coordination difficulties between team members separated by culture, distance, and time zones need to be addressed and actively managed for optimal multicultural work team performance. However, when organizations have a specific business purpose that requires the diverse understanding and knowledge of different cultures, multicultural work teams can provide an attractive means of structuring work.

Suzanne T. Bell

See also Cognitive Resource Theory; Cultural Values; Managing Diversity; Virtual Teams; Work Team Effectiveness

Further Readings
**Multifirm Network Structure**

Firms in many industries choose to focus on their core activities and outsource noncore activities to external providers. As a result, many products and services in the global economy are designed, produced, and distributed by multiple firms hooked together into a type of organization called a *multifirm network*. The main benefits of the multifirm network structure are flexibility, the variety of capabilities that can be assembled, and the economies of scale and experience that can be leveraged in each activity. The typical multifirm network organization is hierarchical, centered on a lead firm that organizes and manages its suppliers and partners to produce and deliver products or services. Examples of firms that use hierarchical multifirm network structures are Toyota (automobiles), Walmart (retailing), and Li & Fung (apparel manufacture). Recently, multifirm networks have been used inside collaborative communities of firms to develop complex, knowledge-intensive products. Collaborative innovation networks, such as those used by Blade.org in the computer server industry, are temporary, voluntarily formed structures that are self-managed rather than hierarchically managed. This entry describes how the organization of economic activity has gradually changed from the atomistic firm as the key building block to groups of specialist firms operating collectively in a network.

**Fundamentals**

Prior to the 1970s, most American firms were self-reliant—they tended to use only their own resources and capabilities to conduct their businesses. During much of the 1970s, large firms were widely criticized by the business press for being uncompetitive compared with major Japanese companies, such as Sony, Toyota, and Honda. In their attempts to become more flexible and adaptive, American firms began to change how they were organized. Many firms downsized to reduce costs. Some firms removed layers of middle managers from their hierarchies in order to speed up decision making and resource allocation. Others began to subcontract activities—first production and later other business functions—to firms that were specialists in that particular activity. Gradually, the multifirm network structure took shape. Networks composed of multiple specialist companies as their main actors have been called *modular* organizations. Multifirm networks that change their shape frequently are called *virtual* organizations.

A multifirm network organization is different from a traditional (self-contained) organization in several respects. First, instead of holding in-house all the resources required to offer a product or service, multifirm networks use the collective resources of many firms. Each firm in the network specializes in a set of activities that constitute a portion of the total business. Second, multifirm networks rely heavily on market mechanisms in addition to administrative mechanisms to manage resource flows. In order to maintain its position in the network, a firm must behave efficiently and reliably—just as it would have to behave if it wanted to be successful in open markets. Third, lead firms in many multifirm networks expect their suppliers to contribute proactively, to engage in behaviors that improve the network rather than simply fulfilling a contractual obligation. Doing so can help the whole network to learn, improve, and adapt. Last, a multifirm network can be more flexible and scalable than a traditional organization. It can increase or decrease in size relatively quickly, and it can more easily expand its scope than a traditional organization.

A network is a set of actors connected by ties. The network perspective has been used to study how firms connect themselves in order to engage in economic activity, how the resulting multifirm organization
Multilevel Research

The essence of multilevel research in management is that any outcome of interest is the result of a confluence of effects emanating from different levels of analysis. The overall logic is that individuals are nested in teams or work groups, which in turn are nested in larger organizational units, such as departments, districts, or strategic business units (SBUs), which in turn are nested in organizations. Further, organizations are arranged in strategic business groups or perhaps interorganizational networks, which in turn are nested in industries or overall performance environments. These multilevel arrangements have important implications for the development of theory, research, and application. This entry outlines the three cornerstones of the multilevel paradigm in terms of levels of theory, measurement, and analysis, highlighting how this approach pertains to all areas of management and how it changes our thinking and opens up doors for multidisciplinary advancements.

Further Readings


Charles C. Snow and Raymond E. Miles

See also Actor-Network Theory; Interorganizational Networks; Organizational Structure and Design; Strategic Alliances
**Fundamentals**

Multilevel investigations simultaneously consider the relationships between predictors and criteria variables at two or more levels of analysis. Although most applications consider two levels of analysis, other than the complexity of doing so, there is nothing to preclude one from embracing three or more levels of analysis. The variables included within each level may be different or similar to one another across levels. Situations where variables are conceptually comparable across levels (e.g., efficacy, cooperation, competitiveness) are referred to as isomorphism. Instances where the relationships linking variables within levels are comparable to similar ones across different levels are referred to as homologous. Cross-level relationships describe instances, whereas predictor variables from one or more higher levels exert influence on lower level processes or outcomes.

Given the inherent nesting arrangement of multilevel models, the degree of linkage across levels is referred to as bond strength. The general rule is that the relative strength of bonds across levels of phenomena increases with proximity and inclusion, and decreases with distance and independence. For example, the notion of proximity suggests that individuals are most likely to be influenced by their personal attributes, followed by team-level variables, and then by variables from more distant levels, such as industry characteristics. At issue is that, all else being equal, variables residing within a given level are likely to have the strongest bonds, followed by forces from adjacent levels, and to a lesser extent influences from more distant or removed levels from the focal level. Whereas this general pattern is likely to be widely applicable, it does not preclude the possibility of a distant variable exerting a more direct or immediate effect should a theory warrant. For example, individuals may be directly susceptible to events occurring in the far-removed performance environment.

The notion of inclusion refers to how neatly the level entities are hierarchically arranged. To the extent that lower levels are wholly contained in higher level units, bond strength increases. To the extent that lower level entities bridge higher level collectives (e.g., team memberships that span organizations or organizations that are members of multiple strategic groups), the bond strength across levels weakens. Embeddedness describes how lower level phenomena are aligned with higher level factors and processes, such that greater alignment generates stronger bonds or inclusion across levels. The idea here is that higher level variables serve as a context or constraint within which lower level phenomena operate. Finally, entrainment refers to the rhythm, cycles, synchronicity, and pacing of organizational phenomena. As a general rule, the rate at which higher level phenomena (e.g., team cohesion) evolve and change is slower than those of lower level phenomena (e.g., individuals' motivations and attitudes).

Collectively, the notions of bond strength, inclusion, embeddedness, and entrainment suggest that higher level variables (e.g., environments or industries) are far more likely to influence lower level variables (e.g., organizational structure or team arrangements) than the reverse. While this perspective does not preclude the possibility of upward and reciprocal influences, the prevailing logic in management research is that the larger context within which lower level processes are nested generally exerts greater downward influences than lower level variables exert on the higher level context. Research is beginning to explore upward influences where, for example, a single toxic employee might undermine group morale or a particularly effective unit might alter an organizational strategy. Generally speaking, upward influences are more likely in situations where higher level phenomena have yet to fully crystallize or form, such as during socialization periods, early team interactions, following a major organizational intervention, and so forth.

While variables from more proximal layers are likely to exert greater influence on some focal outcome than are variables from more distal layers, there are likely cross-level mediatational relationships that provide linkages across levels. For example, features of a competitive environment may well place a premium on certain organizational designs or practices. In turn, the organizational arrangements may drive subunit operations and whether employees are arranged in teams or not. In short, there is often a filtering effect as distant forces make their way through intermediate levels to a given focal variable. The intervening levels may act to neutralize or accentuate the distal influences and, thereby, also operate as cross-level moderating effects. Naturally this does not preclude direct cross-level effects of variables from distal layers on...
the focal variable. Across layers, influences may be positive (e.g., munificent environment, empowered units) or negative (e.g., resource impoverishment, dysfunctional group conflict), or exhibit complex interactions. Notably, the knowledge, skills, abilities, and other characteristics (KSAOs) associated with entities also can exert both direct effects and potentially moderate relationships within and across layers in this model. In this context, KSAOs may refer to individual differences, team composition, or an organization’s human capital.

**Importance**

The multilevel framework is important because it forces scholars and practitioners to formally consider factors from outside of their focal level. For example, while team effectiveness is a function of how well members coordinate their efforts, their task design, and so forth, it is also driven by members’ characteristics and the extent to which an organization supports teamwork initiatives. These latter features come from lower and higher levels of analysis, respectively. Multilevel investigations are guided by three important interrelated issues, namely, the level of (a) theory, (b) measurement, and (c) analysis, for the constructs included in an investigation. Level of theory refers to the focal level to which generalizations are designed to apply. Level of measurement refers to the level at which the raw data were collected. The key principle here is that whenever the level of measurement differs from the level of analysis, some justification for the aggregation of data is warranted. Therefore, we need a theory and rationale and supporting psychometric evidence, to justify aggregating data from one level of analysis to represent a higher level construct, for example, if researchers collect data from individual team members and wish to use these to index team-level variables (e.g., demographic diversity, cohesion); they need to advance a theory as to how those data combine to represent the higher level construct. Generally speaking, there are two types of aggregation principles: composition and compilation. Composition refers to situations where simple descriptive statistics (such as the mean or variance of scores in a collective) adequately represent the processes that associate lower level data with higher level constructs. That is, each lower level entity implicitly contributes equally to the higher level index in a fairly straightforward manner. In contrast, compilation refers to instances where measures collected from lower level entities combine in nonlinear complex ways to generate a gestalt, or whole, that is not reducible to its constituent parts. In effect, compilation suggests that not all lower level scores contribute equally to the aggregate phenomenon and that such weighting may change over time.

A typology of multilevel constructs has developed over the years, which includes at least six different types: (a) selected score (e.g., most anxious member), (b) summary index (e.g., members’ social capital), (c) consensus (e.g., affective tone), (d) referent shift or alignment (e.g., collective efficacy), (e) dispersion (e.g., functional diversity), and (f) aggregate (e.g., industry munificence). Importantly, depending on the nature of the higher level construct, it is incumbent upon researchers to provide different types of psychometric evidence to support aggregation.

**Level of Analysis**

The level at which data are analyzed must be aligned with the level of theory for the constructs
involved. To the extent that the two facets are not aligned, misspecifications of various forms will arise—often referred to as fallacies of the wrong level. Because lower level entities are not independent in multilevel designs, traditional single-level analytic techniques, such as multiple regression, are not applicable (because they employ the wrong error terms). Fortunately, recent developments have produced statistical techniques that account for such nonindependence and can accurately analyze relationships that traverse levels of analysis. Generically referred to as random coefficients analysis (RCM) or hierarchical linear modeling, multilevel analyses can test three types of relationships. First, there are potential lower level direct influences, such as between individuals’ personality variables and their attendance. Second, there may be direct cross-level influences, such as the effects of group cohesion on members’ average attendance. And third, there may well be cross-level interactions whereby the relationships between lower level predictors and outcomes differ as a function of higher level factors. For example, the relationship between individuals’ need for affiliation and their attendance might be accentuated to the extent that they are members of groups with high attendance norms. Naturally, interactive relationships among variables from within any given level may be incorporated as well.

These basic types of relationships can be extended to test mediational and longitudinal relationships, and RCM has been extended into the realm of multilevel structural equation modeling, and it has been integrated with growth modeling and longitudinal techniques. Yet many challenges remain to be addressed, including adequate methods for estimating the power of various multilevel parameter tests, measurement models that traverse levels of analysis, centering of data, and a myriad of sampling-related issues. Whereas the multilevel framework offers great promise for advancing the science, it also provides a valuable diagnostic lens for practice. For example, a dysfunctional group might not be attributable to poor team factors, such as communication or coordination breakdowns, but rather to the poisonous influence of an individual member or perhaps to an organizational climate that is nonsupportive of teamwork. The multilevel framework helps to guide managers to consider the root causes underlying organizational successes and failures.

John E. Mathieu

See also Business Groups; Multifirm Network Structure; Organizational Structure and Design; Systems Theory of Organizations; Work Team Effectiveness

Further Readings


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Contents

Volume 2
List of Entries vii

Entries
N 501  S  675
O 513  T  821
P 577  U  915
Q 645  V  923
R 655  W  931

Appendix A: Chronology of Management Theory  935
Appendix B: Central Management Insights  945

Index  963
List of Entries

Academic-Practitioner Collaboration and Knowledge Sharing
Acculturation Theory
Achievement Motivation Theory
Action Learning
Action Research*
Actor-Network Theory*
Adaptive Structuration Theory
Affect Theory
Affective Events Theory
Agency Theory*
Analytic Hierarchy Process Model
Analytical and Sociological Paradigms*
Appreciative Inquiry Model
Architectural Innovation
Asch Effect
Attraction-Selection-Attrition Model
Attribution Model of Leadership
Authentic Leadership

Bad Theories
Balanced Scorecard
BCG Growth-Share Matrix
Behavioral Perspective of Strategic Human Resource Management*
Behavioral Theory of the Firm*
Big Five Personality Dimensions*
Bounded Rationality and Satisficing (Behavioral Decision-Making Model)*
Brainstorming
Bureaucratic Theory*
Business Groups
Business Policy and Corporate Strategy*
Business Process Reengineering*
BVSR Theory of Human Creativity

Career Stages and Anchors
Causal Attribution Theory

Charismatic Theory of Leadership
Circuits of Power and Control
Cognitive Dissonance Theory
Cognitive Resource Theory
Competing Values Framework
Competitive Advantage*
Complexity Theory and Organizations
Compliance Theory
Componential Theory of Creativity*
Conflict Handling Styles*
Contingency Theory*
Contingency Theory of Leadership*
Continuous and Routinized Change
Cooptation
Core Competence*
Corporate Social Responsibility
Critical Management Studies*
Critical Theory of Communication
CSR Pyramid
Cultural Attitudes in Multinational Corporations
Cultural Intelligence
Cultural Values*

Decision Support Systems
Decision-Making Styles
Dialectical Theory of Organizations
Diamond Model of National Competitive Advantage*
Differentiation and the Division of Labor*
Discovery Theory of Entrepreneurship
Diversification Strategy
Double Loop Learning
Dramaturgical Theory of Organizations
Dual-Concern Theory
Dual-Core Model of Organizational Innovation
Dynamic Capabilities

Editor’s Note: Anchor entries are designated with an asterisk.
Emotional and Social Intelligence*  
Empowerment*  
Engaged Scholarship Model  
Entrepreneurial Cognition  
Entrepreneurial Effectuation  
Entrepreneurial Opportunities  
Entrepreneurial Orientation  
Environmental Uncertainty  
Equity Theory*  
ERG Theory  
Escalation of Commitment  
Ethical Decision Making, Interactionist Model of  
European Model of Human Resource Management  
Evidence-Based Management  
Excellence Characteristics  
Expectancy Theory*  
Experiential Learning Theory and Learning Styles  
Fairness Theory  
Firm Growth  
First-Mover Advantages and Disadvantages  
Force Field Analysis and Model of Planned Change*  
Functions of the Executive  
Game Theory*  
Gantt Chart and PERT  
Garbage Can Model of Decision Making  
Genderlect and Linguistic Styles  
GLOBE Model  
Goal-Setting Theory*  
Group Development*  
Group Polarization and the Risky Shift  
Group Punctuated Equilibrium Model  
Groupthink  
High- and Low-Context Cultures  
High-Performance Work Systems  
High-Performing Teams  
High-Reliability Organizations  
HR Roles Model. See Human Resources Roles Model  
HRM Strategies. See Human Resource Management Strategies  
Human Capital Theory  
Human Resource Management Strategies  
Human Resources Roles Model  
Humanistic Management*  
Hypercompetition  
Image Theory  
Individual Values  
Influence Tactics  
Informal Communication and the Grapevine  
Information Richness Theory  
Innovation Diffusion*  
Innovation Speed  
Institutional Theory*  
Institutional Theory of Multinational Corporations  
Integrative Social Contracts Theory  
Interactional Model of Cultural Diversity*  
Interactionist Model of Organizational Creativity  
Interorganizational Networks  
Intuitive Decision Making  
Investment Theory of Creativity  
Job Characteristics Theory  
Job Demands–Resources Model  
Kaizen and Continuous Improvement  
Knowledge Workers  
Knowledge-Based View of the Firm  
Large Group Interventions  
Lead Users  
Leader–Member Exchange Theory  
Leadership Continuum Theory  
Leadership Practices  
Lean Enterprise  
Learning Organization*  
Level 5 Leadership  
LMX Theory. See Leader–Member Exchange Theory  
Locus of Control  
Logical Incrementalism  
Management (Education) as Practice  
Management by Objectives  
Management Control Systems  
Management Roles*  
Management Symbolism and Symbolic Action  
Managerial Decision Biases  
Managerial Grid  
Managerialism
<table>
<thead>
<tr>
<th>Entry</th>
<th>Entry</th>
</tr>
</thead>
<tbody>
<tr>
<td>Managing Diversity</td>
<td>Product-Market Differentiation Model</td>
</tr>
<tr>
<td>Matrix Structure</td>
<td>Profiting From Innovation</td>
</tr>
<tr>
<td>Meaning and Functions of Organizational Culture</td>
<td>Programmability of Decision Making</td>
</tr>
<tr>
<td>Model of Occupational Types,</td>
<td>Prospect Theory*</td>
</tr>
<tr>
<td>See Occupational Types, Model of</td>
<td>Protean and Boundaryless Careers</td>
</tr>
<tr>
<td>Modes of Strategy: Planned and Emergent</td>
<td>Psychological Contract Theory*</td>
</tr>
<tr>
<td>Moral Reasoning Maturity*</td>
<td>Psychological Type and Problem-Solving Styles</td>
</tr>
<tr>
<td>Multicultural Work Teams</td>
<td>Punctuated Equilibrium Model</td>
</tr>
<tr>
<td>Multifirm Network Structure</td>
<td>Quality Circles</td>
</tr>
<tr>
<td>Multilevel Research</td>
<td>Quality Trilogy*</td>
</tr>
<tr>
<td>Narrative (Story) Theory</td>
<td>Quantum Change</td>
</tr>
<tr>
<td>Needs Hierarchy</td>
<td>Reinforcement Theory*</td>
</tr>
<tr>
<td>Neo-Institutional Theory</td>
<td>Resource Dependence Theory*</td>
</tr>
<tr>
<td>Norms Theory</td>
<td>Resource Orchestration Management</td>
</tr>
<tr>
<td>Occupational Types, Model of</td>
<td>Resource-Based View of the Firm*</td>
</tr>
<tr>
<td>Open Innovation</td>
<td>Role Theory*</td>
</tr>
<tr>
<td>Organic and Mechanistic Forms</td>
<td>Schemas Theory</td>
</tr>
<tr>
<td>Organizational and Managerial Wisdom</td>
<td>Scientific Management*</td>
</tr>
<tr>
<td>Organizational Assimilation Theory</td>
<td>Self-Concept and the Theory of Self</td>
</tr>
<tr>
<td>Organizational Commitment Theory</td>
<td>Self-Determination Theory*</td>
</tr>
<tr>
<td>Organizational Culture and Effectiveness</td>
<td>Self-Fulfilling Prophecy</td>
</tr>
<tr>
<td>Organizational Culture Model*</td>
<td>Sensemaking*</td>
</tr>
<tr>
<td>Organizational Culture Theory</td>
<td>Servant Leadership</td>
</tr>
<tr>
<td>Organizational Demography</td>
<td>Seven-S Framework</td>
</tr>
<tr>
<td>Organizational Development*</td>
<td>Situational Theory of Leadership</td>
</tr>
<tr>
<td>Organizational Ecology*</td>
<td>Six Sigma</td>
</tr>
<tr>
<td>Organizational Effectiveness</td>
<td>Social Cognitive Theory*</td>
</tr>
<tr>
<td>Organizational Identification</td>
<td>Social Construction Theory*</td>
</tr>
<tr>
<td>Organizational Identity</td>
<td>Social Entrepreneurship</td>
</tr>
<tr>
<td>Organizational Learning</td>
<td>Social Exchange Theory*</td>
</tr>
<tr>
<td>Organizational Socialization</td>
<td>Social Facilitation Management</td>
</tr>
<tr>
<td>Organizational Structure and Design*</td>
<td>Social Identity Theory*</td>
</tr>
<tr>
<td>Organizationally Based Self-Esteem</td>
<td>Social Impact Theory and Social Loafing</td>
</tr>
<tr>
<td>Participative Model of Decision Making</td>
<td>Social Information Processing Model*</td>
</tr>
<tr>
<td>Path-Goal Theory of Leadership*</td>
<td>Social Movements</td>
</tr>
<tr>
<td>Patterns of Innovation</td>
<td>Social Network Theory</td>
</tr>
<tr>
<td>Patterns of Political Behavior</td>
<td>Social Power, Bases of*</td>
</tr>
<tr>
<td>Personal Engagement (at Work) Model</td>
<td>Sociotechnical Theory*</td>
</tr>
<tr>
<td>Positive Organizational Scholarship</td>
<td>Stages of Creativity</td>
</tr>
<tr>
<td>Practice of Management, The*</td>
<td>Stages of Innovation</td>
</tr>
<tr>
<td>Principled Negotiation*</td>
<td>Stakeholder Theory</td>
</tr>
<tr>
<td>Principles of Administration and Management Functions*</td>
<td>Stewardship Theory</td>
</tr>
<tr>
<td>Process Consultation</td>
<td>Strategic Alliances</td>
</tr>
<tr>
<td>Process Theories of Change*</td>
<td>Strategic Contingencies Theory</td>
</tr>
<tr>
<td>Product Champions</td>
<td>Strategic Decision Making</td>
</tr>
<tr>
<td></td>
<td>Strategic Entrepreneurship*</td>
</tr>
<tr>
<td></td>
<td>Strategic Flexibility</td>
</tr>
</tbody>
</table>
List of Entries

Strategic Frames
Strategic Groups
Strategic Information Systems
Strategic International Human Resource Management
Strategic Profiles
Strategies for Change
Strategy and Structure
Strategy-as-Practice
Structuration Theory*
Substitutes for Leadership
SWOT Analysis Framework
Systems Theory of Organizations*
Tacit Knowledge
Technological Discontinuities*
Technology Acceptance Model
Technology Affordances and Constraints
Technology (of MIS)
Technology and Complexity
Technology and Interdependence/Uncertainty*
Technology and Programmability
Technology S-Curve
Theory Development*
Theory of Constraints
Theory of Cooperation and Competition
Theory of Emotions
Theory of Organizational Attractiveness
Theory of Reasoned Action
Theory of Self-Esteem
Theory of the Interesting
Theory of Transfer of Training
Theory X and Theory Y
Total Quality Management*
Trait Theory of Leadership*
Transaction Cost Theory*
Transfer of Technology
Transformational Theory of Leadership
Transnational Management
Triple Bottom Line
Trust
Two-Factor Theory (and Job Enrichment)
Type A Personality Theory
Typology of Organizational Culture
“Unstructured” Decision Making
Upper-Echelons Theory
Value Chain*
Virtual Teams
Work Team Effectiveness
Narrative (Story) Theory

Storytelling theory is defined as the interplay of narrative past, living-story present, and antenarrative futures. The theory’s central management insight is that linear narratives are in interplay with other forms of storytelling, such as living stories and antenarratives. Because humans are homo narrens (storytelling animals), storytelling is one of the preferred sensemaking currencies of management and organizations. Narrative is typically about the past, often has a linear plot about the past (i.e., a narrative arc) with a beginning, middle, and end, and, comprises only a few key events and characters in order to provide coherent meaning. Aristotle held that narrative had certain elements: plot, character, theme, dialogue, rhythm, and spectacle (in a hierarchic order). Narrative is also a way people and organizations craft their identities. Narratives negotiate order and change. Narrative phenomena occur at the individual, group, organization, community, regional, national, and global levels. Most authors make a distinction between narrative and living stories of the present and the future-oriented antenarratives.

Fundamentals

The theory of narrative has undergone many changes since its introduction in Aristotle’s Poetics. In the 19th century, Karl Marx’s historical materialism was a dialectic approach favoring social class and economic forces. Marx rejected philosopher G. W. F. Hegel’s narrative of a dialectic of spirit-qua-perception/cognition. Later, United States and French structuralisms focused on form rather than elements or dialectics. Structuralists, such as Kenneth Burke, were critical of dialectical approaches and reduced Aristotle’s six narrative elements to five elements (pentad) by combining dialogue and rhythm and changing the names of the elements: Plot became act, character became actor, theme became purpose, dialogue and rhythm were combined into agency, and spectacle became scene. In addition, scene took on a much more important role than in Aristotle’s day, and the pentad was less hierarchical, allowing for combinations, such as act/scene and other ratios. Russian formalists began with a mechanistic split between narrative-plot (sjuzhet) and story (fabula). The mechanistic view was that narrative could change the plot sequence around, but story had to conform to chronology. Later Russian formalists looked at the poetic aspect as more important than the practical language of narrative and story. Critical-theory scholars, such as Mikhail Bakhtin, addressed more dialogical aspects of story (e.g., polyphonic manner of story) in their relationship to the more monologic manner of narrative. Jacques Derrida makes a similar differentiation. He looked at how different kinds of narratives (e.g., adventure) have different conceptions of time and space than more folkloric narratives, some of them emphasizing the more primordial. Post-structuralists (e.g., Derrida and Julia Kristeva) focused on text and intertextuality or emphasized discourse (Michel Foucault, Judith Butler, and many others). Hermeneutic approaches (particularly that of Paul Ricoeur) looked across iterative temporal
Narrative (Story) Theory

events at how prenarrative (e.g., story), narrative (emplotment), and postnarrative discourse formed a hermeneutic circle (or spiral). Ricoeur also returns to a dialectic of difference and sameness in identity narratives. Social constructionism began with a focus on the relation of materiality to narrative (and discourse) constructions (e.g., Peter Berger and Thomas Luckmann). In recent years, social constructionism has been criticized for taking the linguistic turn too far and leaving out material conditions and materiality itself (see, e.g., Karen Barad, Bruno Latour).

There are several types of narrative (grand, counternarrative, antenarrative, etc.). The grand narrative is more macro in orientation, such as a grand narrative about Marxism or liberal democracy. There are counternarratives about a dominant narrative rendition of events, and accounts by other narrators. Narrative can also be more micro, such as the narrative of one’s career. Narratives about the future or ones that are not as yet entirely coherent or stabilized are referred to as antenarratives. According to the theory of organizational narrative, it adapts slowly to circumstance, and it is what Barbara Czarniawska calls “petrified” in order to stabilize core values, rooted in the past. Dennis Mumby asserts that narratives can be quite political and hegemonic.

Narrative and Story

For those who distinguish between narrative and story, narrative often empties out or abbreviates story. The Italian approach is microstoria, a look at the stories and tellers who defy the grand narrative order of their community. This is often done with archival data. Yannis Gabriel, in his study Storytelling in Organizations, views story as something more than narrative such as something that is performative and has emotional carriage. People tell narratives of the past and living stories of their unfolding relationships (that may have neither identifiable beginnings nor foreseeable endings), as well as what some authors call antenarratives of the future. Such antenarratives are important to strategy, to leader visioning, and so forth. Living stories and antenarratives adapt and morph more readily. The three aspects of storytelling (narrative, story, and antenarrative) are in coadaptive relationships.

Narrative, story, and antenarrative are studied in their own right or used to substantiate other concepts such as efficacy, identity, agency, rhetoric, ethics, motivation, politics, complexity, (explicit and tacit) knowledge, and learning. Work in narrative is focused on its relationship to discourse (i.e., narrative as a domain of discourse). Emotional contagion, intuition, and the unconscious are discussed in relation to narrative. Recent approaches are looking at moving from homo narrrens to species narrrens, or even material narrrens. This is a more posthumanist perspective, where humans are not the only species doing the storytelling, and from a forensic or archaeological perspective, the materiality tells its own story. Actor-network theory and agential realism (Barad) looks at this later perspective.

In conclusion, the practical applications of storytelling theory are that an organization’s storytelling needs to balance its past, present, and future. Modern managers can learn from this theory how a linear and petrified sensemaking narrative of the past can provide stability in stable equilibrium situations, but when the environment changes too far from equilibrium, there can be a need to look to nonlinear and noncyclical antenarrative paths of transformation to the future. The spiral-antenarratives of an organization can have upward ascents and downward plunges in its performance in its complexity and strategic flexibility. The storytelling can get out of sync with complex adaptive systems in more turbulent environments. We are just beginning to study and understand spiral- and assemblagem-antenarratives because narrative (story) theory for the longest time has focused on the past, instead of the future.

David M. Boje

See also Actor-Network Theory; Appreciative Inquiry Model; Punctuated Equilibrium Model; Sensemaking; Strategic Flexibility; Tacit Knowledge

Further Readings

Central to theories of motivation in organizations, needs hierarchies suggest that organizational members are motivated by innate, universal human needs and that these needs can be arranged in a hierarchy. That is, some needs are more important in certain circumstances and thus serve as more motivating than others. For example, a hungry employee will be motivated to fulfill that need before others. Once the employee is no longer hungry, he or she can focus on “higher order,” or more sophisticated, needs. The most enduring and well known of these theories is that of American behavioral psychologist Abraham Maslow. Developed in the 1940s, his hierarchy of needs has become ubiquitous, and it is rare to see a chapter on motivation in a business management textbook that doesn’t include Maslow’s hierarchy of needs, as depicted by the now famous pyramid. Not just an enduring management theory, Maslow’s needs hierarchy can be found in a wide range of fields, including psychology, sociology, health care, and government policy. The following paragraphs explain Maslow’s needs hierarchy, provide an overview of the critiques of the theory, and discuss the impact of Maslow’s work on management theory and the practice of management.

Fundamentals

Needs-based theories of motivation suggest that if managers understand employees’ needs, they can provide incentives that help meet these needs, thus, motivating the employees. These theories rest on the assumption that needs are motivators. Maslow’s work supports this, and interpretations of his work contend that humans share basic categories of needs and that these needs can be arranged in a hierarchy. This hierarchy suggests a prepotency where the appearance of one level of need rests on the prior satisfaction of a more “prepotent” need.

Management textbooks suggest that Maslow’s hierarchy of needs is best depicted by a pyramid with five levels. At the base of the pyramid lie our most basic needs—our physiological needs, which include the needs for food, air, water, and shelter. According to the theory, until these most basic needs are met, an individual will not be motivated by needs found at other levels. This suggests that these are the most prepotent of all the needs.

According to Maslow’s theory, after physiological needs have been satisfied, the individual is most concerned with the next level of needs—the safety needs. This refers to the need for a safe, stable environment that is without pain or threats. Employees facing these needs might be best motivated by the promise of steady employment, a raise that affords them the ability to live in a safer neighborhood, or a benefit plan that includes medical and dental benefits.

Moving up the levels of the pyramid, the next category refers to belongingness needs. This category represents the need to be loved, the need for affection, and the need to form relationships with others. Managers familiar with Maslow’s needs hierarchy might offer employees membership in elite teams or groups, social functions whereby employees can develop social relationships, or might promote an organizational culture that creates a sense of belonging.

The next level of needs refers to individuals’ esteem needs—the need for personal and social achievement as signified by rewards, recognitions, and the trappings of success. Needs at this level can be categorized as internal or external esteem needs. Internal esteem needs refer to feelings of accomplishment and self-respect, whereas external esteem needs refer to external recognition of success and social status. In terms of organizations, this could mean a challenging assignment, a raise, a corner office, or a reserved parking space.

The final need category is self-actualization. This refers to self-fulfilment. This refers to self-fulfilment, reaching one’s potential and “being all that one can be.” According to Maslow, a painter must paint, and a writer must write. Until a person is doing what it is they are meant to do, they will be motivated by this unmet need. Proponents of Maslow’s needs hierarchy contend that empowered employees who have some control over their own
destiny and are maximizing their potential are self-actualized. According to modern interpretations of Maslow’s work, this is the desired state, but it can be achieved only after all other needs have been met.

The first four levels of needs are considered to be deficiency needs. They are activated when they are not satisfied. For example, the individual who is hungry will be motivated to find food. Similarly, when an individual feels threatened, he or she will be motivated to remove the threat. After the deficiency needs are met, the individual can move on to self-actualization, which is considered a growth need. Unlike the other four levels, when self-actualization needs are met, the individual desires fulfillment of more of these needs and will stay at this level.

Despite what is most often published about Maslow, he was most interested in what happened after people reached the fifth stage and could focus on higher order needs. He actually created another hierarchy that describes higher order needs and exists above the five-stage hierarchy. These needs include the need for knowledge and the need for beauty. However, this additional hierarchy is rarely mentioned in management texts, and this focus on positive psychology is often lost in discussions of Maslow’s work, which focus more on needs deficiencies.

**Importance**

Maslow’s needs hierarchy is believed to have first appeared in a business textbook in North America in 1964. Since then, his work has served as the basis for many other management theories. For example, Clayton Alderfer’s needs-based theory of motivation, Lyman W. Porter and Edward Emmet Lawler’s expectancy theory, and several theories of organizational change management all appear to contain elements of Maslow’s original theory of motivation. Use of Maslow’s theory is widespread and applications are still plentiful in the fields of marketing, human resource management, and customer service.

Not only is it applied to organizational studies, but Maslow’s theory continues to appear in health care, immigration policy, and the fields of psychology and sociology. The hierarchy of needs also makes frequent appearances in the popular media through newspaper articles, self-help books, and television and radio programs. Most, if not all, of these academic and popular press applications of the needs hierarchy focus on the five-stage pyramid, ignoring much of Maslow’s other work and his desire to focus on what happens after self-actualization.

Despite this widespread acceptance and application of Maslow’s needs hierarchy, the theory has received significant criticism. Arguably, the most serious of these criticisms brings into question the validity of the theory. Some argue that the theory is “untestable” and, therefore, not really science. In addition, very little scientific evidence exists to support several critical elements of Maslow’s needs hierarchy, specifically, the prepotency of the needs categories and the universality of the hierarchy. Critiques emerged as early as 1973, as can be seen in Mahmoud Wahba and Lawrence G. Bridwell’s presentation at the Academy of Management conference titled “Maslow Reconsidered: A Review of Research on the Need Hierarchy Theory” (published in 1976). Even Maslow himself questioned the validity of the needs hierarchy as early as 1979, as can be seen in his now published personal journals. In several entries, Maslow laments the fact that few, if any, researchers were attempting to replicate his work, and many were just accepting the theory as fact, without scientific support.

Other critiques contend that although humans share the same basic needs, some needs are more potent than others and this potency is not universal. Basically, more current theories suggest that need hierarchies vary from person to person. A common example held up as proof of this argument would be those artists who forgo lower order needs in order to pursue their craft. In essence, they forgo some physiological, safety, esteem, and belongingness needs in their quest for self-actualization. Other critics suggest that individuals move up and down the hierarchy, depending on ever-changing circumstances, and that they may be motivated by more than one type of need simultaneously.

Maslow’s hierarchy of needs has also been questioned in terms of its applicability in a modern, global society. Significant research suggests that culture of origin is a predictor of employee characteristics and motivations. For example, it is argued that more collectivist cultures would value relationships and group harmony over individual success and the display of wealth more often found in individualist cultures. These findings suggest that the hierarchy as depicted by Maslow cannot be universally applied.
More recently, the ubiquitous triangle has been criticized as being gendered—that it was developed by and for men and centers on masculine notions of success and self-actualization. As such, it does not represent all organizational members. Finally, studies of Maslow’s diaries have revealed that the needs hierarchy, as it is most often presented, resembles little of what Maslow was actually attempting to accomplish. Maslow was concerned with the emancipation of humankind and saw the hierarchy as a means of helping individuals to achieve self-actualization and growth beyond the first hierarchy. He was also interested in other need categories, including dominance, sexuality, and knowledge and inquiry. Scholars argue that by presenting his work in this narrow fashion, his greatest contributions have been ignored.

Despite significant criticism, Maslow’s work continues to inform teaching and research. Some suggest that the needs hierarchy has endured due to its intuitive nature and the simplicity of the pyramid. Others argue that it remains popular because it has been institutionalized as “truth” and, until recently, few have questioned its presence in management texts and academic writings. More recent discussions of the needs hierarchy in management texts acknowledge the criticisms but contend that Maslow’s work is still valuable as it demonstrates that humans are motivated by more than money (contrary to early managerialist theories of motivation), that humans are motivated by different needs at different times in their lives and careers, and that some basic, universal, human needs do exist.

Maslow’s needs hierarchy, owing to its widespread use and teaching, has been influential for managers. It suggests that employees are motivated by different rewards and that managers should identify which need category is most influential for each employee. For example, a new employee with student loans to repay may be motivated more by a pay raise than, perhaps, an employee who has been with the company for a long time and is seeking more challenging assignments, admittance to the executive cafeteria, or a national award. Similarly, the needs hierarchy provides insight into the behavior of people in organizations. If managers can understand what motivates behaviors, they may be better able to predict and influence those behaviors.

Kelly Dye

See also ERG Theory; Expectancy Theory; Leadership Practices; Role Theory; Theory X and Theory Y; Trait Theory of Leadership

Further Readings


**NEO-INSTITUTIONAL THEORY**

Neo-institutional theory is a theoretical framework often used to explain the diffusion of practices and structural arrangements across organizations, one that emphasizes the effects of the environment, particularly external stakeholders’ expectations and beliefs, on organizational decision making. Since the publication of key articles in this tradition in the mid-1970s, it has become one of the most prominent frameworks used by macro-organizational scholars to study and explain how and why the formal structure, or design, of organizations changes over time. Accumulated research supports key tenets of the framework, including the central thesis that such change is often driven by imitation of other organizations and normative pressures to have legitimate or “correct” formal structure. The entry begins by locating the development of neo-institutional
theory in the context of early sociological research on formal organizational structure, with the aim of clarifying how it departed from existing work on this topic. Next is a summary of the major tenets of this theoretical perspective. While these focus primarily on macro-level change processes across organizations, they reflect assumptions about underlying micro-level processes within organizations; thus, we discuss the latter in the next section. The entry concludes with a consideration of some of the implications of this theoretical approach for practical decision making by managers, and some further readings are suggested.

Fundamentals

Understanding the sources and consequences of organizations’ formal structure has been a central aim of organizational studies from the field’s very beginning, driven by both theoretical and practical concerns. By formal structure, we refer to explicitly articulated rules, assignment of work tasks to particular groups or subunits, delegation of responsibility for decisions to particular positions, and so forth. (This is distinguished from informal structure, which usually refers to how things are actually done and who actually does them—that formal and informal structure may not be identical is axiomatic among organizational scholars.)

Virtually all of the early work on organizational structure, from the classic analysis of bureaucracy by Max Weber to contingency approaches often used in mid-20th-century organizational research, was characterized by a common assumption: Organizational decisions about formal structure are driven largely, if not entirely, by concerns with controlling and coordinating work activities. Because formal structure was understood to be critical to efficient production activity, studies of structure typically treated it as the result of decision-makers’ calculations of how best to achieve this objective, calculations that took into account various task-related aspects of the organization (e.g., size) and its environment (e.g., speed of technological change).

Macro-Level Processes of Structural Change

The analysis laying the foundation for neo-institutional theory, proposed in a now-classic article published in 1977 by John Meyer and Brian Rowan, offered a radical departure from earlier thinking about both the purposes of formal structure and the nature of organizational decision making leading to variations in structure. One point of departure is reflected in the assertion that formal structure could serve symbolic functions, in addition to the practical ones of control and coordination. This implies that the adoption of a particular structure, such as a set of production processes advocated by prominent organizations (e.g., International Organization for Standardization—the ISO), or policies in line with those endorsed by agencies promoting social responsibility (e.g., the United Nations) may reflect efforts to communicate important information about the organization to individuals and groups outside it, rather than being a reflection of efforts to solve technical problems facing the organization. A second point of departure is that it assumes that organizational decision making is partly driven by attention to what other organizations are doing. Hence, this approach emphasized both the symbolic aspects of formal structure and the role of external social influences on organizational decision making.

Neo-institutional theory is characterized by three main tenets. The first is that components of formal structure (e.g., certain policies or positions) can, over time, come to be generally accepted as right and proper elements of well-managed organizations. This is referred to as the institutionalization of structures. A common focus of research in this tradition has been on identifying important sources of institutionalization processes, including governments or powerful organizations that have the ability to require other organizations to adopt structures (coercive); advocates who actively promote or endorse certain structures such as social movement groups or professional associations (normative); and other organizations that have adopted the structure and appear to be successful (mimetic). The term institutional environment is used to refer to the set of beliefs about appropriate organizational structures that exist at any given point in time, as well as to the various sources that promote such structures. Note that these beliefs and structures are not always consistent or compatible and that they are apt to shift over time. Scholars often talk about inconsistencies in the institutional environment as ones involving “competing logics.” For example, open knowledge sharing has long been a defining characteristic of universities, but after a 1980 law (Bayh-Dole) allowed universities and researchers
within them to patent and receive licensing revenue from federally funded discoveries, privatization of discoveries became a major goal of many universities. One structural consequence was the spread of technology transfer offices (TTOs) across many universities to promote development, disclosure, and patenting of university-based discoveries. Because of differing beliefs about the appropriateness of the private ownership of knowledge in universities, such offices have sometimes been sources of contention.

A second tenet is that, whatever the originating source of an institutionalization process, the process may ultimately take on a life of its own. That is, as a critical mass of adopters develops (and continues to increase), a bandwagon effect ensues, either because organizational decision makers become convinced by others’ behavior that adoption will be beneficial for them as well, or, because they become concerned that others will evaluate their organization negatively for not adopting the structure, even if they are not actually convinced of the structure’s benefits. Such pressures lead to structural isomorphism, or similarity among a set of organizations in terms of structural features, independent of particular characteristics of an adopting organization that would logically seem to affect its need for the structure. The production of structural isomorphism in response to external pressures is illustrated clearly by the spread of TTOs discussed above; most do not make enough licensing revenue to cover their operating costs.

A third tenet, underscored by Meyer and Rowan’s theory, is that insofar as decision makers adopt structures primarily because of external pressures and are not convinced of their utility, the structures are apt to be decoupled, that is, not actually used on a regular basis or allowed to affect day-to-day activities in the organization. The idea that structures may be largely or entirely ceremonial emphasizes a distinction between adoption and implementation (and a potential gap between formal and informal structure). Most of the empirical research guided by an institutional theory framework has focused on adoption; relatively little is known about the conditions under which organizations that adopt institutionalized structures implement them or do not.

Micro-Level Processes and Decision Making

At the same time as early macro-level formulations of neo-institutional theory were being developed, Lynne Zucker was conducting research aimed at identifying micro-level mechanisms that drive both structural isomorphism and heterogeneity. Her experimental studies demonstrated that individuals’ cognitive framing can be readily redefined when situations are highly ambiguous, that individuals are particularly susceptible to such reframing in organizational contexts, and that cognitive framings are more easily transmitted in organizations than in other contexts. This work provided the basic cognitive foundations for the claims of neo-institutional theory by linking psychological and perceptual processes involved in internal organizational decision making to environmental conditions (e.g., the increasing adoption of formal structures by competitors and other organizations).

This work also suggests an important connection between neo-institutional theory and classic sociopsychological research on conformity. The latter line of research, associated with work by Solomon Asch, Leon Festinger, and Stanley Milgram (among others), has provided compelling evidence that individuals are prone to adapt their behaviors to align with those of others, even when it is easy to see that those behaviors represent objectively poor choices. Such conformity can be attributed either to normative pressure (individuals go along with others because they want to be socially accepted) or to informational pressure (individuals use the behavior of others as data in efforts to make correct decisions). Although not typically acknowledged, neo-institutional theory’s core tenets reflect assumptions about the operation of social influence processes documented in sociopsychological research. Institutional theorists extended this research to an organizational level of analysis, with other groups and organizations outside the boundary of a focal organization serving as sources of conformity pressure on organizational decision makers. Zucker’s early work provides an explicit bridge between the sociopsychological literature and more macro-oriented work by neo-institutional researchers, one that is just beginning to be explored more fully in other studies.

Importance

Neo-institutional theory’s central management insight is that managers need to be conscious of what are often strong social pressures to follow
the lead of other organizations in adopting new structural arrangements and to gather as much systematic information as possible about conditions that affect the impact of such arrangements before making their own decisions about whether to adopt them or not. This implies that the search for “best practices,” as sometimes advocated in the popular management literature, may be quixotic. That the effects of structural arrangements on organizational outcomes depend on particular characteristics of a given organization—its size, the composition of its workforce, the kinds of production technologies it uses, and so forth—is well documented by empirical studies.

Of course, observing what other organizations are doing can save managers much time and effort in terms of thinking about ways to solve problems that they may be confronting in their own organization (i.e., reduce search costs). If the observed organizations are sufficiently similar to a focal organization, organizations may receive notable benefits from imitation. Moreover, there is some evidence that conforming to social expectations about “correct” formal structure can have at least short-term positive consequences (e.g., increases in stock price).

However, neo-institutional theory alerts managers and administrators to the way in which observation of other organizations, and a lack of careful analysis of relevant contingencies, can create potential biases in decision-making processes and result in cycles of faddish and unproductive organizational change. Because changes in structure are far from costless, greater awareness among decision makers of the way in which institutional pressures may shape their choices can encourage more thoughtful weighing of the costs and benefits of such change.

Pamela S. Tolbert and Lynne G. Zucker

See also Contingency Theory; Decision-Making Styles; Environmental Uncertainty; Groupthink; Institutional Theory; Norms Theory

Further Readings


**NORMS THEORY**

We all look to others, either consciously or unconsciously, to make decisions about how to act in a particular context. Social norms—or group-based standards or rules regarding appropriate attitudes and behavior—play a crucial role in shaping how we interpret our social world and how we act, from the niceties of how much to tip in a restaurant to the critical decision of who to vote for in an election. Norms are also important in management contexts because for almost every workplace behavior, from which clothes to wear to whether to take a sick day when one is not ill, individuals will have an understanding of which behaviors are approved of by others and which behaviors others engage in themselves. Individuals’ perceptions of the organizational norms, and the norms for their own teams within that organization, will guide and shape their own workplace behavior. That is, the
attitudes and behaviors that are seen to be endorsed by one's colleagues and displayed by one's colleagues will define what is seen to be appropriate—or normal—behavior within the workplace context. And because individuals have a strong desire to display behavior that is accepted by others, employees’ actions will reflect their perceptions of what is “normal” for their team or organization. In thinking about norms, it is important to first distinguish between two sources of norms—descriptive and injunctive norms—and understand their impact on behavior. Next, given that individuals often misperceive norms, it is of interest to consider how such misperceptions might influence behavior. Third, given that research has demonstrated that norms have a powerful impact on behavior, how can we harness the power of norms to change behavior? And, finally, how do norms impact upon organizational management?

**Fundamentals**

In thinking about social norms, prominent theorists such as Robert Cialdini have argued that it is important to distinguish between two sources of influence: descriptive norms and injunctive norms. **Descriptive norms** refer to what behavior is done commonly in a given context, and they motivate action by informing people about what behavior is likely to be effective or adaptive in that context. In contrast, **injunctive norms** refer to what behavior is approved or disapproved within a group, and they motivate action because of the social rewards and punishments associated with engaging (or not engaging) in the behavior. Thus, injunctive and descriptive norms are seen to represent separate sources of motivation and, hence, should have separate influences on behavior, a fact that has been demonstrated in a substantial body of field, laboratory, and survey research.

Although theorists may make a distinction between descriptive and injunctive norms, these two sources of norms are often confused or conflated by people. This is because although what is commonly approved of and what is commonly done within a group is often the same, this is not always the case. For example, although most people probably believe that employees should keep communal kitchen areas clean and tidy (injunctive norm), it may well be the case that many employees do not clean up after themselves (descriptive norm).

Given that there can be conflict between descriptive and injunctive norms, what determines which norm will prevail? One critical factor is the salience of the norm. That is, norms are seen to motivate and direct action to the extent that they have been activated in a particular situation. Returning to the example above, a messy and unclean communal kitchen area will make salient the descriptive norm that employees do not clean up after themselves, reducing the likelihood that a particular employee will clean up after him- or herself. In contrast, a large and prominent sign reminding employees that cleanliness and tidiness is approved of will make salient the relevant injunctive norm thereby increasing the likelihood of conformity with the injunctive norm.

One final point to consider is whether all norms are equal. That is, given that individuals are exposed to norms from multiple sources, such as family, friends, neighbors, and coworkers, and that these norms might be in conflict, which norms will individuals follow? Once again, salience is important. Put simply, coworker norms will be more important in determining workplace behavior while family norms will be more important in determining dinner-table behavior. However, over and above what might be considered to be contextual salience, some groups (and their norms) might be chronically salient, shaping and guiding behavior in multiple contexts. That is, an individual’s gender identity might always be salient, such that gender norms influence the way she interacts at work, at home, or in the broader community.

**Norm (Mis)Perceptions and Behavior**

It is possible that the norms of a social group are objectively stated and clear to all members. However, because norms are rarely written down and explicit but are more informal and implicit, it is important to consider individuals’ perceptions of the norms. But are people accurate in perceiving group norms? In fact, research has documented a consistent pattern of misperception about norms, particularly in relation to negative or harmful behavior. That is, when thinking about negative attitudes and behaviors, most people tend to incorrectly perceive the negative attitudes and behavior as the norm, despite the fact that such attitudes and behaviors are not typical. If people think that the negative behavior is more typical, they are then more likely to engage in that
type of behavior because of the pressures that drive people to conform to norms. Indeed, Wesley Perkins argues that much, if not most, of the harm done by negative group influences occurs through one’s misperceptions of group norms—a phenomenon that he labels a “reign of error.” Applied to the management domain, such norm misperceptions could have negative organizational consequences. For example, if employees perceive that their coworkers are adopting a “go-slow” or a “work-to-contract” policy in their work, perhaps because of high-profile coworkers who espouse this policy, they may begin to work less productively themselves in order to fit in with the perceived group norm.

**Norms and Behavior Change**

If norms—and norm misperceptions—have such a powerful impact on behavior, is it possible to correct such misperceptions and use norms to promote more positive behavior, both in the workplace and in wider society? One approach to preventing problem behavior and promoting and reinforcing positive behavior is to correct misunderstandings that the problem behavior is typical and common. In taking a social norms approach, the first step is to gather credible data from the population of interest and identify the actual norms regarding the attitudes and behaviors of concern. Following this, a social norms intervention can communicate the true norms of the group in an effort to correct misperceptions and reduce engagement in the problem behavior. There is generally good support for the effectiveness of such an approach, with people responding to these initiatives with more realistic perceptions of peer behavior and reductions in the negative behaviors. Although this approach has been applied primarily in relation to health behaviors among young people (e.g., alcohol and tobacco consumption), it has also been used to tackle other negative behaviors, such as prejudice and discrimination and dishonesty in paying taxes.

Although a social norms approach is effective in tackling negative behaviors, there are some important caveats. For such campaigns to be successful, behavioral change agents must be aware of the distinction between injunctive and descriptive norms and focus their target audience only on the norm that is consistent with the desired behavior change. For example, there is an understandable tendency of behavioral change agents to highlight the prevalence of the problem behavior in the hope that, once people are aware of the extent of the problem, they will change their behavior. For example, those who attempt to get adults to eat more fruits and vegetables often present data that “8 out of 10 adults do not eat enough fruits and vegetables each day.” However, as noted by Cialdini, such messages draw attention to the negative descriptive norm, increasing its salience and its power to influence behavior. Thus, when faced with such a message, adults may ask, if no one else is bothering to eat healthily, why should they deviate from the norm? In other words, if used incorrectly, norms can be associated with backlash or boomerang effects.

In light of the potential for norm backlash effects, what advice can be given to behavior change agents. Well, according to Cialdini and his colleagues, injunctive norms may be more effective when negative behavior is common (i.e., one should focus on the disapproval for the negative behavior), but descriptive norms may be more effective when positive behavior is common. In addition, there is clear evidence that norms-based change attempts are most effective when the descriptive and injunctive norms are presented in alignment with one another. That is, when individuals are told that a particular behavior is both approved of and done commonly.

**Importance**

Norms are clearly an important determinant of behavior and can be used to change behavior. However, is there any evidence of their effectiveness in the management and organizational behavior domain? In fact, although there is recognition of the role of norms in organizational behavior, there have been few attempts to consider the distinction between descriptive and injunctive norms in organizations, or, to use norms to change employee behavior. This is surprising, given that some of the earliest work on employee behavior focused on the role of group norms. For example, Frederick Taylor’s groundbreaking work on efficiency and productivity found that slow working groups of employees were more likely to corrupt a new productive worker than to be inspired and motivated by them. Similarly, in their Hawthorne studies, F. J. Roethlisberger and William Dickson found that some work groups displayed different forms of deviance in order to
maintain and enforce a norm of productivity, bullying, and excluding more productive workers until they either conformed or left the group.

In recent years, however, there has been renewed interest in the role of descriptive and injunctive norms in organizational behavior. Interestingly, this interest has focused on understanding and explaining negative workplace behaviors, such as absenteeism, bullying, organizational deviance, and counterproductive workplace behavior, rather than on positive workplace behaviors, such as health and safety behaviors. The research has demonstrated that employees’ deviant work behaviors are related to both the actual and perceived frequency with which coworkers engage in those behaviors (the descriptive norm) and approval of those behaviors (the injunctive norm). Moreover, norms are often better predictors of negative workplace behaviors than individual-level predictors, such as personality characteristics, level of stress, age, gender, or seniority.

Despite renewed interest in the role of norms in workplace behavior and the emerging evidence to support the role of norms in this context, research has yet to examine whether norms-based campaigns can be implemented to change, rather than just explain, workplace behavior. Nevertheless, it is critical that managers assess and understand the norms associated with different workplace behaviors, such as deviance or citizenship, before attempting to change these behaviors. Failure to consider the current normative climate may mean that organizational changes are less likely to succeed because employees resist change that is inconsistent with their perceptions of the appropriate and prevalent behaviors for their team. In order for change to be effective, managers need to survey employees’ perceptions of norms and then communicate these back to employees in a way that corrects any misperceptions. For example, a manager interested in increasing the level of organizational citizenship behaviors within his or her team (e.g., mentoring and supporting new colleagues) could communicate that the majority of the team approves of such behaviors. Drawing on the injunctive norm in this way should increase the likelihood that team members will engage in this behavior in the future. On the other hand, given our understanding of the impact of norms on behavior, managers should clearly avoid messages that highlight unsupportive descriptive norms. That is, he or she should not try to rally engagement in mentoring and supporting newcomers by pointing out that this behavior is (regrettably) extremely uncommon within the team. Harnessing the power of norms to change and improve workplace behavior is an exciting and challenging avenue for future research and practice.

Joanne R. Smith and Deborah J. Terry

See also Compliance Theory; Influence Tactics; Organizational Culture Theory; Organizational Socialization; Social Identity Theory; Tacit Knowledge; Theory of Reasoned Action

Further Readings


OCCUPATIONAL TYPES, MODEL OF

A model of occupational types is a framework with a system of key attributes of occupations or careers to enable individual evaluation. The concept is to analyze occupations or career paths down to the most important and common elements to provide insights into what this occupation requires from an individual. These analyses provide a framework to compare individual attributes to occupational attributes in an effort to improve fit (also referred to as congruence) between individuals and their occupations. Individual attributes could include personality, temperament, and preferences for types of tasks or environments. Occupational attributes could include skill sets, work environment, types of social interaction, or types of tasks to successfully complete the job. The fit evaluation can provide insights for the choice of a career or the recognition of change within a career across time. This model and its surrounding theory is used in management research as well as in the practice of career management and counseling, often occurring in human resource departments within organizations or in school settings, both high school and university. This entry describes this model and provides two key examples of this category of career models.

Fundamentals

Theoretically, a general set of attributes can be used to analyze all occupations; more practically, it has proven difficult to choose those attributes that provide sufficient distinction to sort occupations into enough groupings to provide insights without developing a system that is too complex to be practical. Over the past several decades, careers in general have become more unique by being both less bounded by formal organizational career ladders and more self-designed. Thus, while models of occupational types are useful for early career exploration and development, they have become less useful for career development or choice in later life or for issues beyond choice of general career directions.

While several such occupational type models exist, perhaps the most well-known and used model is John L. Holland's vocational codes (also called vocational personality) because he had a dual focus on both the attributes of the individual's preferences and the characteristics of occupations. Beginning with his early work published in 1959, Holland developed instruments to help an individual examine him or herself based on six characteristics and then also categorized occupations on the three important common attributes of the same six characteristics. The six characteristics are realistic, investigative, artistic, social, enterprising, and conventional. The simplicity of this six-trait system makes it fairly easy to apply and use, but documenting the effect of the person-occupation fit is very difficult because many occupations fit within the same code. Holland set up occupational codes as sets of the three most prevalent of these six characteristics within an occupation; thus, while there are hundreds of occupations, there are only 15 distinct sets of codes unless code order matters, and it is hard to distinguish between occupations based on
code order. For example, how would an occupation differ if it was realistic, artistic, and social rather than realistic, social, and artistic?

Although some studies have shown increased positive outcomes for those individuals whose traits match the traits of their chosen occupation, there is little confirmation of what happens to less congruent people across time nor how enduring these congruence effects are over the course of a person’s career. Further, especially in our diversified global economy, there is increasing variation of jobs within an occupational area. Also, it has become more common for people to develop boundaryless careers which cross traditional occupational delineations and blend aspects of two or more careers (e.g., a forensic chemist who combines chemistry with investigation with pathology). Holland’s work has been particularly used for career counseling in terms of developing ideas for careers to explore among youths. One commonly used outgrowth of Holland’s work is the Strong-Campbell Interest Inventory, which is often used in high school and college to help students identify their own traits and how they match with occupational groups and careers.

The second most commonly used model of occupational types is Schein’s career anchors. Edgar H. Schein also focused on the idea of fit, but more broadly, in the sense that he looked at this model as being inherently variable but being anchored or rooted in enduring traits of both the individual and the occupation. The career anchors are technical/functional competence, managerial competence, autonomy/independence, security/stability, entrepreneurial creativity, service/dedication to a cause*, pure challenge*, and lifestyle* (asterisks denote anchors added in the second iteration of the model). Schein also developed an instrument (the Career Orientation Inventory) to help individuals understand their own anchors. Instead of developing the rigid codes to match for occupations, he suggested rather that understanding anchors could improve satisfaction if organizations tailored structures and rewards to their employee’s anchors. Schein focused more on the idea of anchors being a theme for a person’s life work and identity, rather than sorting mechanisms to match people to types of jobs. Thus, career anchors as model of occupational types focuses more on individual needs and then puts the burden on the organization to find ways to match an individual’s preferences, rather than as a tool for career counseling and development.

Barbara Ribbens

See also Career Stages and Anchors; Differentiation and the Division of Labor; Human Capital Theory; Job Characteristics Theory; Organizational Demography; Personal Engagement (at Work) Model; Self-Concept and the Theory of Self; Self-Determination Theory

Further Readings


Open Innovation

Until the middle of the 20th century, corporate innovation was based on the assumption that full control of the entire new product development process will secure the long-term competitiveness of the company. Large companies invested heavily in corporate research and strongly competed for the best researchers. New findings were kept confidential to prevent outflow of knowledge and secure competitive advantage (closed innovation paradigm). At the beginning of the 1980s, many large corporations failed to appropriate the value generated by its corporate research institutions and were outperformed by new emerging companies investing significantly less resources in research and development (R & D) but relying on externally available resources. This anomaly founded the shift from a closed to an open
innovation paradigm. Introduced by Henry William Chesbrough in 2003, open innovation is defined as the use of purposive inflows and outflows of knowledge to accelerate internal innovation and expand the markets for external use of innovation, respectively. The boundaries between a firm and its environment are permeable, allowing in- and outflow of knowledge. Within the last 10 years, open innovation has had a significant impact on management theory and has changed the way firms innovate. This entry provides an overview on the theory of open innovation and its implementation based on the three core modes of open innovation: outside-in innovation, inside-out innovation, and coupled innovation. The next section illustrates how existing implementations of open innovation differ in the motivation of interaction, in the direction of knowledge flow, in the type of involved external collaborator, and in the method of interaction used. The last section discusses managerial challenges and current business practices.

Fundamentals

Three core modes of open innovation, introduced by Ellen Enkel and Oliver Gassmann, provide a distinct typology of existing open innovation approaches and offer a categorization of various research fields under the roof of open innovation. The three core modes are subsequently described in further detail.

Outside-In Innovation

Externally available knowledge and ideas are integrated to leverage the innovativeness of the company. Outside-in flows of knowledge complement existing innovation resources with external resources from customers, suppliers, partners, and research institutions. However, though having access to a wide variety of peripheral resources, companies face difficulties in using and exploiting the external knowledge base. Employees proved to be reluctant to integrate outside ideas as they do not fully understand the external ideas or are unwilling to value them. This effect is known as the not-invented-here syndrome (see entry, this volume, on Transfer of Technology).

External collaborator. A prominent stream of research in outside-in innovation is the integration of users in the innovation process. Being the only external actor that is actually using the product offerings, users are able to provide need- and solution-based information. Innovation speed, degree of innovation, and rate of market failure can be improved by early user integration (see the entry Lead Users). Due to the fact that only a selected number of users can be integrated in the innovation process, companies highly depend on the characteristics and attitudes of these users. As a downside, user integration may lead to a niche market orientation. Upstream on the value chain, the early integration of suppliers into the innovation process can significantly increase innovation performance and reduce technological risks in new product development. In recent years, the reduction of vertical integration and the increase of outsourcing intensified supplier integration of many original equipment manufacturers (OEMs).

Additionally, the integration of research institutes as technology suppliers offers the possibility to benefit from basic research without heavy infrastructural investments. Especially resource constrained small and medium sized enterprises (SMEs) can overcome the “liability of smallness” and profit from exchange with research institutions. Besides using external knowledge of their respective industries, companies look for existing solutions present at remote industries that may be transferred to their own context. Described as cross-industry innovation, the challenge is to systematically identify existing solutions for extant problems. The ability to abstract latent challenges and to use analogical thinking is crucial for cross-industry innovation.

Methods of interaction. As a means to integrate externally available knowledge, numerous methods and approaches have emerged. In recent years, crowdsourcing has increasingly attracted attention of many scholars and practitioners. Crowdsourcing offers the possibility to publicly broadcast a problem via an open call. Tasks which were formerly carried out inside the company are outsourced to an undefined group of people. Crowdsourcing platforms—like InnoCentive, Nine Sigma, or Atizo—establish a virtual marketplace where companies can tender problems for remuneration. Solution seekers and problem solvers meet, exchange innovative ideas, and submit solutions. Predominantly, crowdsourcing is focused on solution-based information with the goal of exchanging technological know-how.
Since the emergence of the first virtual communities in the World Wide Web, their numbers have drastically increased. On the basis of community-based innovation, companies use blogs, forums, and social networks to discuss ideas with a mass of stakeholders. The goal is to absorb need-based information and to establish an open discussion on new products or services. The transfer of ethnographic studies to the World Wide Web (netnography) led to new forms of revealing innovative ideas that are freely accessible. Observation of the behavior of groups and their individual members in online communities are used to generate need and solution-based information for new product development. On the basis of graphical user interfaces, toolkits allow users to virtually create new products, adapt design, or add new features according to preferences. The entire exchange is based on digital artifacts. A central component of toolkits for open innovation is the iterative creation process—“learning by doing via trial and error.” The immediate virtual feedback enables a cycle of lasting improvement until an ideal is found. The richness of the offered database within the toolkit's library determines complexity and innovation results. On the one hand, a large database allows the users to come up with more radical solutions. On the other hand, large databases may overstrain the users and limit innovation. The deployment of toolkits shortens development time and costs as the need to produce physical prototypes is reduced.

**Inside-Out Innovation**

Internally available knowledge is transferred outside the companies’ boundaries. External roads for exploitation are advanced to bring ideas faster to market, to prevent conflicts with the existing business model, or to further multiply technologies and generate revenues. Similar to the not-invented-here syndrome, employees hesitate when it is about to bring internal ideas to the outside (not-sold-here syndrome). There is a tendency to hold on to internal ideas and knowledge, which ultimately prevents innovation.

**Out-licensing and IP trade.** According to Joseph Schumpeter, patents constitute the motivation for inventors and entrepreneurs to foster innovation as they secure temporary monopolistic profits. Patents are used as a means to ensure the company’s freedom to operate and prevent imitation. The open innovation paradigm has changed the role of intellectual property (IP) within the company’s value creation process. The new paradigm gives IP a more active role. Companies can generate additional revenues through royalties by out-licensing or by selling. They can make IP available for third parties to establish formats or gain benefits through positive networking effects. The use of IP as a tradable good allows unfolding new business models in a secondary market. For example, Deutsche Bank and Credit Suisse founded a patent fund where both entities buy IP and leverage the value through professional management. The business model of so-called patent trolls is based on the enforcement of patents against infringers and the generation of revenues through lawsuit. It is to be expected that official markets for IP will be established in the upcoming years. This will enable new forms of IP trade and technology transfer.

**Corporate venturing and spin-offs.** The company’s restriction toward its current business model may constrain the advancement of new business models. Corporate venturing and the creation of company spin-offs allow accelerating new business models, dislodged from current business. Fully owned by the mother company, internal corporate ventures benefit from corporate infrastructure but enjoy relatively high freedom. Spin-offs provide the possibility of getting other shareholders involved so as to benefit from their expertise and resources. Innovation clusters present fertile ground for technology spin-offs as large and small companies can exchange expertise based on common interests and goals.

**Coupled Innovation**

Coupled innovation can be described as long-term collaborative interaction of equal partners. Outside-in and the inside-out innovation is merged into one cocreation process, following shared goals of all involved partners. Complementarity of resources and capabilities are critical for the success of long-term collaborations.

**R & D partnerships.** Technological innovation is becoming more and more complex and interdisciplinary. Even large firms can hardly afford to develop new products on their own. Consequently, there is a strong trend toward R & D partnerships
to share risk and development costs and to use synergies. Many large companies strive for being embedded in long-term vertical and horizontal alliances and cross-industry partnerships. These innovation networks are characterized by balanced in- and outflows of knowledge. Large corporations, such as Philips and International Business Machines (IBM) Corporation, have opened up innovation campuses to attract technology start-ups, build up long-term relationships, and create technology joint ventures.

Open source. The appearance of open-source initiatives not only drastically changed the software industry but also characterized a new division of labor. Based on self-selection, programming tasks are outsourced to everyone who wants to get involved. The community of programmers is self-organized. Its members decide to fragment self-contained tasks and put them back together. The appearance of thousands of open-source software initiatives generated under idealistic motives (e.g., Eric Raymond’s famous 1999 essay “The Cathedral and the Bazaar”) seemed to be often noncommercial. The business model will decide whether value can be not only created but also captured. In the case of Linux, many commercially successful service businesses have been developed around the open-source model.

Importance

Open innovation demonstrates a new era in innovation management research. In the last decade, several special issues in scientific journals on open innovation and open source underpinned a fundamental change in the perception of innovation and established open innovation as a distinct research field.

Open innovation enduringly impacted business models in a way where open innovation becomes an integral part of value creation. Following an open innovation strategy, large companies, such as Siemens and Proctor & Gamble (P&G) Company, created firm-specific programs to leverage their own innovation capacity and R & D budget by external resources. In some cases, dislodged units with defined roles were established for the management of open innovation. Within the last few years, numerous innovation intermediaries—companies that moderate open innovation activities between the collaborators—emerged.

For companies, the question is not whether but how to open the innovation processes. Based on business strategy, managers have to decide when and how to open the innovation processes as a means to best leverage internal resources. Nevertheless, being entirely open is not always beneficial. A more contingent approach is required. The three core process can help managers to choose the best way to collaborate with external partners and use external knowledge. Practice has shown that one of the most challenging aspects is to find the right partner. In recent years, distinct methods were developed to assist managers facing this challenge.

Oliver Gassmann and Bastian Widenmayer

See also Lead Users; Patterns of Innovation; Stages of Innovation

Further Readings


Tom Burns and G. M. Stalker’s distinction between mechanistic and organic forms emphasizes how particular organizational structures are appropriate for certain organizational environments. The theory’s central management insights are that bureaucratic organizations operate best in stable environments, whereas decentralized organizations flourish in unstable environments. In other words, mechanistic management systems, which use bureaucratic practices to facilitate decision making, are better suited for stable, unchanging environments. Organic management systems, which apply more decentralized and fluid practices, are more appropriate for dynamic environments. Since unstable environments often pose novel problems and unfamiliar work processes that are difficult to address with mechanistic management practices, organizations need flexibility to tap and coordinate members’ expertise. This distinction between two “poles” of management systems has shaped conceptions of how particular organizational forms dampen or enhance innovation. Rather than focusing solely upon the inner workings of organizations, as prior organizational theories had done, this theory identifies a relationship between environments and organizational structures. This entry first delves into the study that typologized mechanistic and organic forms. After explaining the relationship between these forms and environments, the entry outlines links with contemporaries’ research, as well as affinities with more recent research and theories. Next, the entry summarizes the findings of research into mechanistic and organic forms, as well as related studies that examine contemporary examples of organic forms and their mixtures with mechanistic forms. Finally, the entry describes promising directions in future research.

**Identification of mechanistic and organic forms arose out of comparative studies of established firms engaged in new work and outputs.** Burns and Stalker studied 16 Scottish and English firms during the post–World War II period, including engineering firms that were entering the then-new field of electronic equipment. They found that most of the studied firms attempted to replicate management practices that had worked in the past—namely, bureaucratic practices that worked well in stable environments—even though these did not match their organizations’ current environments. Characteristics of this mechanistic management system include a division of labor, vertical hierarchy, centralized decision making, rules and regulations, and top-down communication of commands. Members are expected to demonstrate loyalty to superiors, and the organization’s status system is based on specialist technical knowledge rather than general knowledge. To cope with the new tasks, organizations with a mechanistic management system reinforce existing bureaucratic practices by introducing more rules and bumping atypical decisions up the chain of command. However, these inflict undesired consequences, including overwhelming supervisors by the sheer volume of decision making. To coordinate this increased work and supervise line workers, organizations formed new departments and positions, as well as committees, thereby proliferating bureaucracy. In outlining these dysfunctions, Burns and Stalker emphasize that organizations are not just tools for reaching goals but also constituted by individuals whose aims may or may not coincide.

Few of the studied firms replaced their mechanistic form with the organic form, which Burns and Stalker claim better fosters innovation. The organic management system relies upon decision making by those who have the expertise at hand, rather than by those in a specified position, with fluid rules and responsibilities, flatter hierarchy, decentralized control and decision making, and communication of advice and information rather than directives. Members are committed to the organization by their shared beliefs in the advancement of the work itself rather than obedience to superiors to facilitate their career. Moreover, their status does not derive from their standing within the firm but instead from recognition across the field outside their organization.
Unlike the mechanistic management system, which segments members’ efforts by a division of labor and departments, the organic management system encourages interdependency and cooperative effort. However, members may have difficulties understanding how their organic management system works. They thus may introduce bureaucracy as a means of decreasing uncertainty. This underscores the tension between members’ desire for stability and predictability, as embodied in the mechanistic form, versus flexibility and responsiveness, as characterized by the organic form.

To some degree, this distinction between mechanistic and organic forms attempts to reconcile prior, seemingly exclusive, conceptions of organizations as (a) rational tools and (b) coalitions of members with multiple, conflicting interests. It does so by integrating and embedding these two perspectives in organizational environments. In the preface to the third edition of *The Management of Innovation*, Burns makes explicit links with several contemporaries who view organizations as decision-making tools that match their environment. For example, James G. March and Herbert A. Simon explain how organizations facilitate decision making, given individuals’ bounded rationality and propensity to satisfice rather than maximize. Distinctions between types of decisions made and decision-making processes used correspond with the categories of mechanistic and organic forms, with the former expediting routine decisions and the latter dealing with untested situations. Joan Woodward’s study of manufacturing firms in England uncovered similar differences in the management structures of routine, large-scale production and innovative, small-runs. In addition, Michel Crozier’s study of cycles of conflict in the French governmental bureaucracy, Strauss and colleagues’ study of the negotiated order in psychiatric hospitals, Richard M. Cyert and James G. March’s study of organizational decision making each reveal the multivariagated and contested nature of organizations, in which decision-making goals and processes involve both contention and cooperation among members.

Although subsequent research and theories do not directly test Burns and Stalker’s claims, they have affinities with mechanistic and organic forms. Typically, mechanistic and organic forms are grouped alongside contingency theory, which similarly posits that organizational structures should match their environments. Researchers have also identified several organizational forms that embody characteristics of the organic management system. For instance, William G. Ouchi elaborates how Japanese firms have operated as clan systems by using more diffuse, flexible practices to coordinate work and committing members via lifelong employment. Using worker cooperatives, communes, and other collectivities, Joyce Rothschild and J. Allen Whitt outline the characteristics of the collectivist organization, which secures members’ commitment based on beliefs in the collective and relies upon rotating tasks, collective ownership, and decision making by consensus. Similarly, social movement research documents how organizations that pursue feminist, civil rights, or social change issues often use flexible forms to integrate rather than suppress members’ multiple interests during organizing processes. Moreover, recent research has examined the increasing use of teamwork, which selectively applies characteristics of the organic form, such as coaching, rotating tasks, interdependency, and collective decision making, while retaining the vertical hierarchy of the mechanistic form.

Although Burns and Stalker outline ideal types of the mechanistic and organic forms, they do not suggest ways of measuring degrees of mechanistic and organic forms along a continuum. Thus, researchers have borrowed other survey instruments to operationalize variables.

**Importance**

Some research has examined whether the distinction between mechanistic and organic forms holds across other kinds of organizations and industries, with most supporting distinctions between the mechanistic and organic forms. For example, research that compares communication between management and workers at a self-managed and at a more conventionally bureaucratic plant shows that the former, organic form cultivated more consultative interactions whereas the latter, mechanistic form issued more commands via the vertical hierarchy.

Contemporary organizations increasingly incorporate selected characteristics of organic management systems. For instance, studies show that relative to mechanistic management systems, the organic management systems enable companies
to mass customize products or that management’s propensity to take risks, seek competitive advantage through innovation, and confront competitors is better suited for organic than mechanistic systems. The adoption of teamwork, also known as high performance workplace practices, quality circles, or total quality management (TQM), has offered additional opportunities to assess established firms’ attempts to switch from mechanistic to organic management systems. As predicted by Burns and Stalker, managers and team members often reproduce bureaucratic practices, creating a more coercive and even dysfunctional organization that intensifies commitment and control. Although rank-and-file members have more responsibilities, managers are reluctant to share authority or rewards, underscoring how organizations involve relations of cooperation and contention.

However, fewer studies attempt to assess the relative effectiveness of mechanistic and organic forms and their environments, whether one form supports more innovation than the other, or how members fare under these two forms. More commonly, researchers propose or empirically document boundary conditions. Noting that Burns and Stalker’s research examined established organizations, researchers of new Internet service ventures argue that nascent organizations in new, unsettled economic sectors benefit from the mechanistic rather than the organic form. Building upon Arthur L. Stinchcombe’s liability of newness argument, such research argues that new ventures benefit from the mechanistic form’s formalization, which decreases uncertainty and enhances members’ abilities to carry out work via role formalization, specialization, and administration. Others hypothesize that organizations that are engaged in new product development under time constraints need both mechanistic and organic structures to gather and process information and coordinate collective action.

Mechanistic and organic forms’ greatest impact has been in recommendations in how to design organizations. For several decades, researchers have anticipated the demise of mechanistic management systems in favor of organic ones. In particular, management articles contrast the mechanistic and organic poles to explain why organizations, including those involved with technology development or other complex outputs with unclear processes such as health care and education, should decentralize and flatten hierarchies for greater flexibility, creativity, and innovation. Indeed, the characteristics of the organic form have been widely adopted in collectivities, such as open-source projects and the annual Burning Man festival, which heavily rely upon volunteers to carry out creative outputs. The organic form is becoming more familiar through organizing experiences such as Wikipedia, occupy Wall Street movement, and participatory budgeting. As such organizational forms proliferate and organizational environments increase in instability, the organic form is more likely to become taken-for-granted.

Looking forward, future research is likely to shed additional insight into the applicability of mechanistic and organic forms. In particular, qualitative and comparative research is needed to understand how organizations actually operate. Promising avenues include researchers’ renewed interest in the contested nature of relations within organizations under different management systems, an aspect of Burns and Stalker’s concept that has received relatively little scholarly attention. In addition, research into how organizations manage relations with other organizations through, for example, overlapping members or shared endeavors may extend conceptions of mechanistic and organic forms.

Katherine K. Chen

See also Bounded Rationality and Satisficing (Behavioral Decision-Making Model); Bureaucratic Theory; Contingency Theory; Environmental Uncertainty; Stages of Innovation

Further Readings


**Organizational and Managerial Wisdom**

Management paradigms and their derivative theories have disproportionately focused, either explicitly or implicitly, on knowledge (resources) and information (processes). In comparison, a wisdom-based paradigm of management seeks to approximate the highest stage of human development and conduct to promote broad-based sustainable success. Despite its long and varied history, the pursuit of wisdom is elusive and difficult to incorporate in management theory and practice. Recent scientific attention has coalesced around three genres of inquiry: the integrative approach of Monika Ardelt, the developmental approach of Paul Baltes and colleagues, and the balanced approach of Robert J. Sternberg. In 2007, Eric Kessler and James Bailey published the *Handbook of Organizational and Managerial Wisdom* to further explore this perspective and facilitate its crystallization. They offer the following definition: Organizational and managerial wisdom (OMW) is the application to professional pursuits of a deep understanding and fundamental capacity for living well. This includes the visioning, integration, and implementation of multifarious dimensions (within logical, ethical, aesthetic, epistemological, and metaphysical domains) as well as the development and enactment of interrelated elements (across individual, interpersonal, organizational, and strategic levels) to lead the good life and enable it for others. This entry reviews the essential elements of their OMW framework and traces its potential importance for advancing the field and profession.

**Fundamentals**

According to Kessler and Bailey, a model of organizational and managerial wisdom can be constructed both along analytical levels and content domains. First, wise management encapsulates individual, interpersonal, organizational, and strategic phenomena. Individuals are the fundamental unit of organizational analysis; their judgments create organizational logics, their morals create organizational ethics, their values create organizational designs, and their reflections create organizational realities. Interpersonal interactions are the fundamental connection between these individuals which may create process synergy or loss. The organizational environment provides the context for individual and interpersonal behavior, and its structure and systems have the potential to influence wise action. Strategic policies facilitate or impede wisdom through overarching visions and manifest policies.

Second, each of these levels of wisdom is engaged across fundamental philosophic (*philos-sophia*, or the “love of wisdom”) issues of logic, ethics, aesthetics, epistemology, and metaphysics. Logic is concerned with the laws of valid reasoning, and its central property is soundness or fidelity. Thus, individual logic relates to sound judgment, interpersonal logic to sound dynamics, organizational logic to sound institutionalized context, and strategic logic to sound policy formulation and implementation. Ethics deals with problems of right conduct. Individual ethics relates to personal virtue, interpersonal ethics to negotiated interaction, organizational ethics to proper leadership, and strategic ethics to principled synthesis with embedded and overlapping systems. Aesthetics attempts to determine the nature of beauty and the character of tastes and preferences. Individual aesthetics relates to personal values and attitudes, interpersonal aesthetics to empathy and exchange, organizational aesthetics to change and development, and strategic
Organizational and Managerial Wisdom

aesthetics to human resource systems and practice. Epistemology investigates the nature of knowledge and the process of knowing. Individual epistemology relates to a person’s sensemaking process, interpersonal epistemology to diversity and the synthesis of knowledge frameworks, organizational epistemology to processes of institutionalizing knowledge and learning, and strategic epistemology to innovation and the creation and application of new knowledge. Metaphysics inquires into the nature and ultimate significance of what exists as real. Individual metaphysics relates to personal reflection, interpersonal metaphysics to influence and power relationships, organizational metaphysics to international and intercultural mind-sets, and strategic metaphysics to pedagogy and education.

Thus, taken together, management can be more or less wise in multiple domains and across multiple levels.

Domains of OMW

By combining these content domains across these levels of analysis, the model of organizational and managerial wisdom takes shape:

Organizational and managerial logic is sound and balanced judgment (individual), integrated within a team framework that manages inherent tensions (interpersonal) and is institutionalized in a structure of checks and balances (organizational), which is used to leverage collective knowledge in order to maximize organizational and societal effectiveness (strategic). The essence then of organizational and managerial logic is that of a finely tuned machine.

Organizational and managerial ethics is prudent, moral behavior (individual), integrated within ethically negotiated relationships (interpersonal) and viability-enhancing leadership (organizational) that is used to discern the most appropriate action for achieving joint value in a multiplicity of complex stakeholder relationships and uncertain situations (strategic). The essence then of organizational and managerial ethics is that of a well-intentioned agent.

Organizational and managerial aesthetics is moderated facilitation of self-interests (individual), integrated within socially and emotionally intelligent interactions (interpersonal) and behaviorally grounded change processes (organizational), that are used to holistically seek a synergy between financial and personal well-being (strategic). The essence then of organizational and managerial aesthetics is that of a mutually reinforcing relationship.

Organizational and managerial epistemology is informed sensemaking and sensegiving (individual), integrated within multicultural contexts and views (interpersonal) and emergent in accepting, empathic, and congruent understanding (organizational) that is used to harmoniously facilitate and properly orient the creative transformation function (strategic). The essence then of organizational and managerial epistemology is that of an emergent common comprehension.

Organizational and managerial metaphysics is reflective and farsighted understanding (individual), integrated within intersubjectively created, collaboratively formed relationships (interpersonal) and a vision that inspires courage and hope to make a positive difference (organizational), used to marry knowing and doing (strategic). The essence then of organizational and managerial metaphysics is that of a meaningful journey.

Levels of OMW

Alternatively, one might view the model from the perspective of the relevant actor(s):

The wise individual is characterized by sound and balanced judgment (logical), prudent behavior (ethical), moderated facilitation of self-interests (aesthetic), informed sensemaking and sensegiving (epistemological), and reflective and farsighted understanding (metaphysical). The person who is the embodiment of individual wisdom within the domain of organization management is a complex and thoughtful contributor.

The wise team is characterized by managed tensions (logical), morally negotiated relationships (ethical), emotionally and socially intelligent interactions (aesthetic), multiculturally reconciled contexts and views (epistemological), and reflectively and farsighted understanding (metaphysical). The wise team, then, is the embodiment of interpersonal wisdom as a rich and supportive interaction.

The wise organization is characterized by an institutionalized structure of checks and balances (logical), viability-enhancing leadership (ethical), behaviorally grounded change processes (aesthetic), acceptiveness, empathy, and congruent understanding (epistemological), and a vision that inspires courage and hope to make a positive difference (metaphysical). The embodiment then of organizational wisdom within the domain of
organizational management is that of an enabling and synergistic context.

The wise strategy is characterized by leveraging collective knowledge in order to maximize organizational and societal effectiveness (logical), discerning the most appropriate action for achieving joint value in a multiplicity of complex stakeholder relationships and uncertain situations (ethical), seeking a balance between financial and personal well-being (aesthetic), improving and properly orienting the creative transformation function (epistemological), and the marriage of knowing and doing (metaphysical). The embodiment then of strategic wisdom within the domain of organization management is that of a productive and inclusive vision.

**Importance**

A framework of organizational and managerial wisdom elevates the academic dialog from commonly employed information-based and knowledge-based perspectives of management. Generally speaking, knowledge is necessary but not sufficient for wisdom. Scientific knowledge can tell us how to do things but not whether they ought to be done. Moreover, knowledge can be a double-edged sword with respect to wisdom insofar as it may provide us not only with the raw materials from which to reflect but also may restrict perspectives, learning, and intentions. It is thus little surprise that the academic literature is dominated by both narrowly defined inquiry and elaborate statistical manipulations, struggles so mightily with multilevel and cross-disciplinary research, and often fails to address the really “big” issues facing managers. We humans live in the information society and have witnessed the emergence of academic fields, such as management information systems; business departments, such as information technology (IT); advanced technologies and scientific capabilities; and corporate titles, such as chief information officer (CIO). We have also witnessed the popularity of knowledge management, knowledge workers, competitive advantage, resource-based views of the firm, and the chief knowledge officer (CKO). An OMW framework takes the next step toward wisdom-based discourse. Some encouraging trends include the broad, impressive array of management scholars contributing to the OMW handbook as well as the emergence of areas such as sustainability, stakeholder theory, positive organizational scholarship, and triple-bottom-line metrics for assessing an expanded collection of performance metrics.

Moving forward, Kessler and Bailey propose several dimensions for modern managers to approximate wisdom and incorporate it into their organization. They are grouped into the following outcome categories: (a) *extraordinary intellectual prowess*—becoming a thinking manager/organization, (b) *extraordinary emotive capacity*—becoming a feeling manager/organization, (c) *extraordinary collective orientation*—becoming a synergistic manager/organization, (d) *extraordinary functional application*—becoming an engaged manager/organization, (e) *extraordinary introspective insight*—becoming a reflective manager/organization, and (f) *extraordinary principled objectives*—becoming an aspiring manager/organization. The model also discerns several best practices for managers to develop this wisdom by focusing on attitude, awareness, ability, application, and design interventions.

As the OMW approach to management matures, it will need to resolve several tensions from an intellectual as well as practical perspective. First, is there such a thing as a universal OMW? This requires that the global manager balance the realities of relativistic meanings in different contexts (e.g., cultures, industries) with the aspiration to common and collaborative ends. Therefore, the seeker and practitioner of OMW must simultaneously be a realist and idealist, demonstrating a resilient flexibility (to engage, as per Aristotle, multiple manifest wisdoms) while exhibiting a broad-mindedness and integrative, almost visionary quality (in pursuing, as per Plato, an overarching Wisdom). Second, is there a perennial OMW? This requires balancing the “state” of wisdom with the wisdom journey of perpetual development and growth. Therefore, to truly understand, practice, and develop OMW, managers must see it as both snapshot and cinema, as the fundamental interplay between acquiring and utilizing wisdom (and the virtual or vicious cycles that may result), and as the inseparable interaction of being and acting wise. As we face a world of increasing uncertainty and interconnectivity, complexity and uncertainty, and hence opportunity and peril, the need for wise management becomes that much more important.

*Eric H. Kessler*
Organizational assimilation involves the processes by which individuals become integrated into an organization. Given that most individuals join numerous organizations throughout the course of their lifetime, organizational assimilation is a ubiquitous aspect of workers’ lives. However, assimilating or integrating into an organization is neither simple nor guaranteed. Unsuccessful assimilation has been linked to premature turnover, costly to both organizations and newcomers. Therefore, facilitating and overseeing the assimilation of new workers is a significant function of management. This insight gives managers, members, and other stakeholders an ability to better anticipate and facilitate newcomers’ successful assimilation. Several similar constructs are used in conjunction with or in lieu of assimilation. For example, some researchers do not use the term organizational assimilation and instead refer to similar processes as organizational socialization. However, most researchers use both terms, distinguishing socialization as the process by which newcomers learn about the organization role they will hold in it. Another increasingly used term is membership negotiation. Membership negotiation is employed to emphasize that members’ integration into an organization is often achieved through negotiations between newcomers and old-timers. The entry begins by reviewing early theorizing about organizational assimilation through phase models. Next, it notes more recent assimilation research that explores processes involved in assimilation and factors commonly associated with member integration. Finally, it discusses four of the most commonly used theories to frame organizational assimilation research.

Fundamentals

Early research and theorizing about organizational assimilation involved segmenting the processes by time. Phase or stage models divide the assimilation process into three or four segments. The first phase, commonly referred to as anticipatory, is a precursor to organizational entry that includes introduction to the occupation through vocational socialization and introduction to a particular organization as an individual researches and gathers information prior to joining. The second phase is encounter, which commences when newcomers join an organization and entails the training and orientation newcomers receive soon after entry. The third is an adjustment phase. After their initial introduction to the job and the organization, individuals must adjust
to the organization’s requirements and norms. However, most persons also attempt to individualize, or adapt, the role to suit their own needs, and this also is part of this phase. Many phase models include a fourth phase, referred to as stabilization. Stabilization represents a period of time in which members are mostly assimilated into the organization, and although changes in the organization or within the members can alter their feelings of assimilation, they consider themselves—and others consider them—to be full members. Phase models have been criticized because they unrealistically present assimilation as a linear process with discrete phases, and they illustrate what happens during the phases rather than how it occurs. Nevertheless, most researchers regard phase models as useful heuristics.

Recent research indicates that seven processes are involved in organizational assimilation, including developing familiarity with supervisors, developing familiarity with coworkers, acculturating, becoming involved, feeling recognized as a contributing member, negotiating one’s role, and developing task competency. These processes of assimilation are affected by several factors. First, elements of the organization can affect new members’ assimilation including training offered by the organization and the organization’s culture. Where some cultures are formal and members must adhere to strict rules of conduct, others are much less formal thus allowing members considerable leeway in how members behave and define their roles. Second, occupation has a strong influence on member assimilation. Individuals in many professions (e.g., physicians, professors, attorneys) undergo extensive training and develop strong identification with their occupation prior to entering careers causing them to be much more committed to their occupation than their organization. In occupations in which work is a job rather than a career, individuals may be more committed to their organization than their occupation. This makes their organizational assimilation more personally important. Third, coworkers’ interactions with newcomers influence assimilation through welcoming new members and acquainting them with others and the workplace. Finally, new members can influence their own assimilation. Some newcomers are more proactive in seeking out information to gain acceptance and reduce uncertainty.

Several theories have been used in the past and continue to frame assimilation research. Uncertainty reduction theory is useful in examining how newcomers manage and reduce uncertainty associated with entering organizations, including meeting and developing productive relationships with others, developing task competency, and integrating into the organizational culture. Sense-making theory is a useful framing, enabling researchers to examine how newcomers make sense of events, behaviors, and relationships in new organizational contexts. Social identity is a less frequently used theoretical frame, but it is useful when researchers focus on how individual’s social identity affects and is affected by assimilation into an organization. Recent research and theorizing also draws on elements of structuration theory. For example, studies have examined how organizational structures enable and constrain assimilation, and, how organizational discourse enforces and reinforces norms, policies, and ideologies associated with assimilation into organizations. Contemporary research in the area examines a variety of issues related to assimilation including mediating factors such as the effect of past organizational experiences and the effect of diversity.

Managers can use organizational assimilation theory in several ways. First, management can understand how socialization provided by the organization has a significant influence on whether newcomers successfully integrate or quickly turnover. Second, research in the area has identified newcomers’ motivations to assimilate. In addition to attaining task competency, new members are motivated to make sense of early experiences, reduce or manage uncertainty, and to ascertain how their new role links to their social identity. Managers’ awareness and anticipation of these motivations may therefore aid their roles in meeting those needs and in facilitating entry and retention. Third, newcomers assimilate in several ways including getting to know coworkers, learning about the culture of the organization, becoming involved, and being recognized as a contributing member. Management can play an important role by providing socialization experiences in each of these processes that help to ensure newcomers’ assimilation success.

Karen K. Myers

See also Organizational Culture Theory; Organizational Identification; Organizational Socialization; Sensemaking; Social Identity Theory
Organizational Commitment Theory

Organizational commitment (OC) is, in general terms, an employee’s sense of attachment and loyalty to the work organization with which the employee is associated. It is defined in terms of an employee’s attitudes and intentions (understood as the precursors of behavior). Employees are said to be committed to the organization when their goals are congruent with those of the organization, when they are willing to exert effort on behalf of the organization, and when they desire to maintain their connection with the organization. Unsurprisingly, OC has been shown to be a key antecedent of other important attitudes and behaviors, including those related to performance and turnover. For instance, a large body of research suggests that organizations whose members have higher levels of commitment tend to get more out of those members, in terms of higher in-role and extra-role performance and lower levels of absenteeism and lateness. The study of organizational commitment has grown in popularity over recent years in the literature of management, industrial-organizational psychology, and organizational behavior. Indeed, OC is among the most studied of all the characteristics and attitudes that have drawn the attention of organizational scholars. Much of this interest is due to the fact that OC appears to predict some organizational outcomes, including extra-role performance and turnover, better than other work attitudes, such as job satisfaction. This entry reviews the dominant theories of organizational commitment from the 1960s to the present day and concludes with possible directions for the future development of this theory.

Fundamentals

Organizational scholars began seriously to conceptualize the notion of OC, and to delineate its antecedents and consequences, in the 1960s. Since then, the growing interest in OC has contributed to a conceptual richness in how we understand this construct. Over the years, there have been three main approaches to defining and measuring OC: the calculative approach, the attitudinal approach, and the multidimensional approach. These will now be described in turn.

The Calculative Approach

The calculative approach rests on the “side bet” theory of Howard Becker. Becker introduced this term in the 1960s to refer to the accumulation of investments valued by the individual that would be lost or deemed worthless if he or she were to leave the organization. In gambling, a side bet is a wager that is separate from the main bet or stakes in the game being played; for instance, two players in a card game might bet on whose hand holds the highest spade. Becker argued that over time, economic, social, and other investments—side bets—income, status, seniority, and friendships, even simply “knowing the ropes,” tie people to a particular line of activity. The threat of losing these investments,
along with a perceived lack of alternatives to replace or make up for them, commits the person to the organization. Measures reflecting this approach were developed in the late 1960s and the 1970s. These measures question respondents on the likelihood of their leaving the organization, given various levels of inducement in pay, status, responsibility, job freedom, and promotion opportunities.

**The Attitudinal Approach**

The second approach, also called the “organizational behavior” or “psychology” approach, sees commitment as affective or attitudinal. According to the attitudinal approach, employees feel committed to the organization because they identify with the organization’s values and goals. More specifically, commitment under this approach has three dimensions: (a) a desire to maintain membership in the organization, (b) belief in and acceptance of the values and goals of the organization, and (c) willingness to exert effort on behalf of the organization. Commitment under the attitudinal approach has also been termed affective commitment and value commitment.

The attitudinal approach gave rise to one of the most important measures of OC, the Organizational Commitment Questionnaire (OCQ), which dominated the literature from the early 1970s to the mid-1980s. The OCQ consists of 15 items (a shortened version has nine positively phrased items) reflecting the three dimensions of commitment. Some studies noted that the relationships between this measure and some attitudinal variables, such as job satisfaction and job involvement, were too high for an acceptable level of discriminant validity. However, in separate examinations of the OCQ, other researchers supported the general conclusion that it contains good psychometric properties.

Because of the OCQ’s dominance, most findings, conclusions, and proposals for a future research agenda on OC are based on this measure. But in the mid-1980s, new criticisms began to arise regarding this approach. The basic difficulty is that two of the dimensions of commitment in the OCQ, a strong desire to maintain membership in the organization and a willingness to exert considerable effort on behalf of the organization, overlap with intentions of outcome behaviors such as withdrawal and performance. The response to that criticism has taken two directions. First, since the items in the full measure that deal with withdrawal and performance are among the six problematic items which are negatively phrased, researchers have tended to use the nine-item version of the OCQ more frequently than the full 15-item version. Second, a new trend has evolved in the definition and measurement of OC.

**The Multidimensional Approach**

Arguing that OC can be better understood as a multidimensional concept, two scholars—John P. Meyer and Natalie Jean Allen—proposed in 1984 a two-dimensional measure of OC. Conceptually, their distinction between the two dimensions paralleled that between the side-bet calculative approach of Becker and the attitudinal approach. The first dimension was termed affective commitment and was defined as positive feelings of identification with, attachment to, and involvement in, the work organization. The second was termed continuance commitment and was defined as the extent to which employees feel committed to their organizations by virtue of the costs that they feel are associated with leaving (e.g., investments or lack of attractive alternatives). Later, the scholars added a third dimension: normative commitment, defined as employees’ feelings of obligation to remain with the organization.

The multidimensional approach is today the prevailing approach to OC. However, the theory remains in flux. For instance, some studies have found that continuance commitment is itself a two-dimensional construct, with one subdimension representing the sacrifices made by an employee in staying with the organization (this is termed high-sacrifice continuance commitment) and the other representing available employment alternatives (low-alternatives continuance commitment). For this reason, some scholars argue that commitment should be studied as a four-component model. In addition, the normative commitment scale is very highly correlated with the affective dimension of OC, raising concerns about the discriminant validity of the normative scale. In short, scholars have raised serious questions about the validity and reliability of two of the three dimensions advanced by the multidimensional approach, and much work still needs to be done before this approach can be used to draw firm conclusions.
Importance

Aside from these questions about the various approaches to the study of organizational commitment, researchers have raised more general concerns about the usefulness of OC as a predictive tool. The basic test of commitment—as for any other construct—is its predictive validity. OC has shown modest relationships with turnover and weak correlations with in-role performance. It does show relatively high correlations with organizational citizenship behavior (OCB), or extra-role behavior. This raises the question of whether the real power of OC is its ability to predict OCB, as opposed to in-role performance—a question that should be considered in future research.

Another promising direction for future research is the adoption of a multiple-commitment approach. Some scholars have begun to examine simultaneously several foci of commitment in the workplace, including not only the organization but also the workgroup, the job, the union, and the occupation. Several forces have advanced this approach. First, there is growing awareness that in the workplace, as in life generally, people can and do show commitment to more than one focus at the same time. For a real understanding of commitment in the workplace, it is therefore necessary to examine more than one object of commitment.

Second, changes in the work environment worldwide, particularly recent and continuing recessions in many economies, have led many organizations to reduce their workforces. Many have simply cut back, while others have turned to outsourcing—contracting jobs and tasks previously performed in-house to external providers. This has led, in turn, to a decline in the importance of the organization from the employees’ point of view. The result is that in many occupations across many countries, organizations do not want to be tied to employees, and employees do not want to be tied to organizations. Long-term commitment is no longer seen as desirable, and organizations no longer put effort into creating a commitment culture.

There is some evidence that the move toward a multiple-commitment approach will increase the predictive validity of commitment. However, it is still too early to tell how fruitful this approach will prove. Do employees really distinguish among all the different possible foci of commitment at work, or are we researchers developing concepts that do not have strong meaning for employees? Concept redundancy and measurement problems may yet prove to bedevil the multiple-commitment approach. This is another important issue that needs to be examined in future research on commitment.

Better understanding of commitment theory has important practical implications for modern managers. First, by understanding what commitment entails for individual employees, managers may be better able to motivate them and increase their contribution to the organization. For instance, employees with higher levels of affective commitment may respond positively to work-sponsored social events, while employees with higher levels of calculative commitment might need more tangible incentives, such as the promise of pay raises. This may be particularly relevant for international managers, as commitment may have different meanings, antecedents, and implications in different cultures.

Second, an understanding of how commitment can extend to multiple foci might allow managers to characterize employees by commitment profiles. This can provide valuable practical information for employers. For example, which profile of commitment has the best fit to the organization in terms of employees’ behavior in the workplace? Which profile of commitment is better from the viewpoint of the employee’s well being? Commitment profiles can assist organizations in both selection and maintenance of human resource functions. If organizations know which profiles are more beneficial for them they can integrate some of this knowledge into their selection criteria. Also, they can include and increase the relevant commitments through their training programs. Commitment profiles can also be related to nonwork domains, potentially offering a means by which employers can help employees to better cope with the sometimes competing demands of work and nonwork. Career management, both through individual career planning and through household planning, may improve career commitment and, to a lesser degree, organizational commitment. Organizations, therefore, might benefit from programs intended to aid employees in planning their careers and managing household activities that might interfere with work-related commitments. Understanding these aspects can assist in finding positive ways to effect commitment forms.

Aaron Cohen
Organizational Culture and Effectiveness

Organizational culture encompasses the system of beliefs, assumptions, values, and norms held by the members of an organization. Over the past 30 years, scholars of management and organizational science have advanced a number of theoretical perspectives to explain how culture impacts organizational effectiveness. The purpose of this entry is to provide an overview of the major theories and what they contribute to our generalized understanding of the culture-effectiveness relationship. These theories can be broadly categorized into process-oriented and resource-based perspectives. The process-oriented perspective follows from an anthropological tradition (and more recently, organizational psychology) and considers how organizational cultures—as systems—evolve in response to environmental demands. The resource-based perspective is rooted in economics and describes the macro factors that allow culture to serve as a source of competitive advantage for the firm. The modern dimensionalized view of organizational culture is evident in both theoretical perspectives, providing the framework for comparing organizational cultures and studying the existence and nature of culture-effectiveness relationships. In light of growing evidence pointing to culture as an important antecedent of various organizational performance outcomes (for a recent overview of this literature, see Sonja Sackmann, 2011), these theories hold particular relevance for management scholars interested in human-social factors as drivers of organizational effectiveness.

Fundamentals

The process theory linking culture to effectiveness is perhaps best illustrated by Edgar Schein’s work beginning in the early 1980s. Schein described culture as an adaptive feature of organizations with a recursive relationship with the organization’s effectiveness. Founding leaders implant their personal values and assumptions within the organizations they create. As the group struggles to overcome competitive pressures and succeed together as an organization, the culture evolves and becomes deeply ingrained. As a consequence of this process unfolded over time, the organization’s culture comes to reflect the collective learning of the group regarding what works and what doesn’t (i.e., what is effective). Cultural elements and practices that inhibit the organization’s effectiveness are eventually abandoned in favor of those that promote effectiveness and increase the likelihood that the organization will survive and flourish. If culture does not adapt to meet changing demands, the organization may face crisis or even perish.

Thus, culture shapes, and is shaped by, the organization’s successes and failures. Yet two main questions remain for theories to address: What are the kinds of cultural values, norms, and work practices...
that promote success and deflect failure? And how do these elements of culture impact an organization’s effectiveness? To address these questions, scholars have advanced dimensionalized models of culture and theories relating cultural dimensions to effectiveness outcomes. Dimensionalized models organize the total system of values, norms, and basic assumptions into cultural configurations that (a) reflect coherent categories or cultural themes (e.g., teams focus, risk orientation) and (b) help to prioritize the aspects of culture that are most likely to impact organizational effectiveness.

Daniel Denison’s work in this area advances a theory of cultural effectiveness based on a dimensionalized model that was developed over a series of qualitative and quantitative studies. Together, these studies indicated that in general, the highest performing organizations find ways to empower and engage their people (involvement), facilitate coordinated actions and promote consistency of behaviors with core business values (consistency), translate the demands of the organizational environment into action (adaptability), and provide a clear sense of purpose and direction (mission). Underlying the cultural traits are “dynamic tensions” that reflect the inherent conflicts between maintaining an adaptive and externally focused culture versus stability and internal consistency (see also the entry Competing Values Framework in this encyclopedia). The theory proposes that organizations are most effective when they have higher levels of each cultural trait—that is, stronger cultural norms and values surrounding involvement, consistency, adaptability, and mission—thereby representing a more balanced cultural configuration.

Denison’s theory is an example of a direct effects view of the culture-effectiveness relationship, proposing that higher intensity (or levels) of specific types of cultural values and norms cause higher effectiveness; hence, there is a direct relationship. Alternative views describe mediated and moderated culture-effectiveness relationships. Mediation implies an intervening causal factor. For example, culture shapes human resource practices which cause effectiveness. Moderation can take on several forms but in general describes how the culture-effectiveness relationship is dependent on certain boundary conditions.

Jay Barney’s resource-based theory follows from a moderation view of the culture-effectiveness relationship. The theory complements process-oriented (micro) theories by describing the marketplace (macro) conditions required for organizational culture to causally impact firm profitability. First, the culture must be valuable to the firm, allowing it to operate in ways that achieve a higher degree of effectiveness than competitors—toward this end, the micro process-oriented theories are useful. Second, it must be rare. No advantage is conferred if the culture is common to many or most of the firm’s competitors. Third, it must be imperfectly replicable, such that competitors cannot re-create the exact culture in their own organization. Taken together, the conditions specified by the theory address the when question: When is culture most likely to be a source of competitive advantage for the firm? In short, when the culture is valuable, rare, and not easily replicated by competitors.

Levi R. G. Nieminen and Daniel Denison

See also Cultural Values; High- and Low-Context Cultures; Meaning and Functions of Organizational Culture; Norms Theory; Organizational Culture Model; Resource-Based View of the Firm

Further Readings


**Organizational Culture Model**

This entry focuses on perhaps one of the best known conceptualizations of the abstract concept of organizational culture: Edgar H. Schein’s organizational
Organizational Culture Model

Organizational culture has been a prominent domain of inquiry in management and organizational theory for over three decades, yet culture continues to be a contested area of management research. Organizational analysts vary in their definitions and conceptions of culture and also disagree about how culture is observed and measured, how it is fostered and changed, the mechanisms through which it exerts its influence, and its effects on organizational performance. Some scholars claim that interest in the cultural perspective has waxed and waned. Schein’s comprehensive and enduring model coupled with a surge of recent culture research belies this view. All signs suggest that organizational culture will continue to be a prominent explanatory construct in organization and management theory for years to come. Schein’s model provides a useful template to ground our understanding. The following section explores aspects of Schein’s culture model, with particular attention to his definition of culture and its key elements, content of culture, cultural dynamics, and theoretical tensions. Next, the entry considers the evolution of the organizational culture perspective more generally, and concludes with an assessment of the importance of the organizational culture model for management theory and practice.

**Fundamentals**

Schein defines culture as a pattern of shared basic assumptions, invented, discovered, or developed by a given group as it learns to cope with its problem of external adaptation and internal integration, in ways that have worked well enough to be considered suitable and, therefore, can be taught to new members as the correct way to perceive, think, and feel in relation to those problems. What Schein has spelled out in careful detail, many researchers and practitioners spell out more compactly: Culture consists of a system of shared taken-for-granted beliefs, values, and behavioral norms that shape how organizations and their members make sense of and cope with their worlds. Schein emphasizes the deeper manifestations of culture, its deep patterns of shared assumptions rather than its more superficial aspects such as overt behavior patterns. Behavioral regularities in the form of traditions, formal rituals, and customs certainly can reflect culture, but overt behaviors can also result from situational contingencies or other demand effects.

**Structural Elements**

Consistent with most other conceptualizations, Schein distinguishes three levels in which elements of culture are manifest. These elements are hierarchically ordered from deeper to more surface levels, with the deeper elements having a more profound influence on attitudes and behaviors. The analogy of an iceberg illustrates the visible and invisible structure of culture. Typically, only a small part of the iceberg is above water and the rest is hidden. We have only to think about the fate of the ship Titanic to get a sense of the enormity of the unseen part of the iceberg. Culture is similar. The surface-level elements, observable artifacts, include aspects of culture that are readily apparent to the outside observer. These include language, dress, policies and procedures, and statements of philosophy. Artifacts are easy to observe but hard to decipher without understanding how they connect to underlying assumptions. The intermediate-level elements of culture, espoused (and documented) beliefs, ideologies and philosophies, values, and norms, are less visible—manifest in myths and stories, public expressions during meetings or ceremonies, or written documents that outline the company and its strategy. These elements can be discerned through archival methods, questionnaires, or survey instruments as well as interviews. At its deepest level, culture consists of basic assumptions and beliefs about the organizational context and how things work. These deeper structures become taken-for-granted and unconscious over time because they have been successfully used as preferred solutions to past problems. These tacit, often unconscious, assumptions define what organizational members should pay attention to, signal what things mean, and shape how they should emotionally react and act in a variety of situations. Assumptions can be discerned through intensive observation, focused interviews and self-analysis. In any organization, the deeper-level elements will be expressed in a large variety of artifacts. This means that in any organization, one would observe only a few deeply held assumptions but many artifacts.

One point of disagreement between Schein and other culture researchers concerns whether the deeper structures that serve as guiding principles for meaning making and adapting represent shared basic assumptions or core values. Schein argues that these deeper structures reflect basic assumptions rather
than values. People can agree or disagree about core values and generally are open to discussing them. In contrast, basic assumptions become so taken-for-granted that they are nonnegotiable and, often, not debatable or even confrontable. Questioning or challenging basic assumptions often provokes anxiety or defensiveness, and even reactance. This makes them sticky and very hard to change.

A second point of difference concerns the relationship between culture and organizational performance. Schein eschews the common notions that some cultures are better or worse or that good performance is the result of one right culture. The question of whether a particular culture is effective or ineffective depends on the nature of the relationship between the culture and the environment in which it exists.

To summarize, through the lens of Schein’s conceptual model, when we talk about culture, we are talking about assumptions that preserve lessons learned from dealing with the outside and the inside; principles derived from these assumptions that prescribe how organizational members should perceive, think, and feel; artifacts or visible markers and activities that embody and give substance to the espoused principles and taken-for-granted assumptions.

Content of Culture

Cultural assumptions and manifestations cover all areas of organizational life. To understand an organization’s culture requires an understanding of the content of the underlying assumptions. Management scholars have attempted to deal with the complexity of cultural analysis by creating typologies and organizing cultural manifestations into basic content categories. A well-known example is Geert Hofstede’s bipolar categorization of work-related cultural assumptions into five categories that include high- versus low-power distance, strong versus weak uncertainty avoidance, individualism versus collectivism, masculinity versus femininity, long- versus short-term time orientation. Schein takes a more functionalist and evolutionary stance in his classification of content dimensions. He proposes, first and foremost, that cultural assumptions relate to the archetypical problems of (a) surviving and adapting to the external environment, and, (b) integrating internal processes to enable capabilities to survive and adapt. But there is more. Schein notes that all organizations exist within the context of broader macrocultures, such as nations, ethnic and religious groups, and professions and occupations. Thus, an organization’s cultural assumptions reflect many of the more abstract issues about which humans in any particular national and occupational macroculture (i.e., any society) need to agree. Schein proposes that in addition to external adaptation and internal integration, basic assumptions in all organizations relate to the nature of reality and truth, the nature of time and space, human nature, and the nature of human activity and human relationships. Schein further subdivides each of these basic dimensions. For example, assumptions about external adaptation include assumptions about the organization’s core mission, goals and the means to achieve them, what criteria will be used to measure results, and remedial actions to be taken if goals are not met. Shared basic assumptions about internal integration include assumptions about common organizational language and concepts; group boundaries and criteria for inclusion and exclusion; criteria for allocating status, power, and authority as well as rewards and punishments; norms of trust, intimacy, and love; and concepts for explaining the unthinkable and uncontrollable.

Cultural Dynamics

The evolutionary perspective is central in Schein’s conception of how organizational culture evolves, is perpetuated, and changes. The essence of culture is acquired through social learning and preserved through socialization processes. Cultural evolution can happen naturally or can be guided or managed. Natural and constant pressures for cultural adaptation and change come both from the multiple environments in which groups and organizations exist and also from the addition of new organizational members who import their own beliefs and assumptions. We noted earlier the tenacity of deeply held assumptions. They are not easily changed or relinquished even in the face of external events or new members that disconfirm them. Changes and adaptations can and do occur naturally from these processes. But leaders and leadership generally are critical to guiding and managing cultural evolution.

An organization’s cultural assumptions often can be traced back to the beliefs and values of its founders or early leaders. Historical accounts often
attribute a firm’s culture to the charisma or vision of its leaders, but charisma per se is neither a common nor predictable explanatory factor. Rather as Schein shows, there are both primary and secondary theoretical mechanisms—things that leaders do and other factors that support and reinforce leaders’ messages and actions—that influence the extent to which cultures are created and embedded. Primary embedding mechanisms include what leaders regularly attend to, measure, and control; how they react to critical events and organizational crises; how they allocate resources, rewards, and status; how they recruit, select, promote, and sanction employees; and the extent to which they deliberately act as a role model, teacher, and coach. Supportive secondary mechanisms include an organization’s design and structure, systems and procedures, rites and rituals, physical space, buildings, myths and stories, and formal statements of organizational philosophy, such as mission statements, creeds, and charters.

Schein singles out three additional factors that affect the evolution of an organization’s culture. These include the stability of the group, the length of time a group has existed, and the intensity of the group’s shared experiences. Some organizations or groups within them may not have learning experiences that enable them to evolve and develop a pattern of shared assumptions. There must be enough of a stable membership and shared history for a culture to form.

A continuing theoretical tension identified by Linda Smircich in early culture research concerns whether culture is a state or static property of a given group or organization—something an organization has—or whether it is a human process of constructing shared meaning that goes on all the time—something an organization is. Managers favor the former functionalist view, whereas many management scholars favor the latter. Schein’s model highlights the grain of truth in both assertions. Culture is perpetually evolving; it is something an organization has that eventually becomes something an organization is.

Subcultures

By definition, culture formation emphasizes the ideas of patterning, integration, and sharedness. Yet it is a gross oversimplification to talk about the monolith of an organizational culture. Organizational cultures may be composed of subcultures that are in alignment or at odds with the dominant culture. In fact, Schein and other culture scholars, such as Joann Martin, importantly acknowledge that there is wide variation in the extent to which organizational cultures are integrated. Cultures can be defined by assumptions that are harmonious and shared. But an organization’s cultural landscape may be characterized by a set of differentiated subcultures whose assumptions are in bitter conflict or by a fragmented set of subcultures whose assumptions are contradictory, puzzling, and ambiguous.

Conflicts, differences, and contradictions in organizations often can be attributed to differing assumptions that derive not only from the macrocultures in which organizations operate (e.g., ethnic groups) but also from assumptions of functional microcultures. Schein proposes that three generic subcultures exist within all organizations. These include the operators, engineers, and executives. The operator subculture, also known as the line or technical core, is critical to actually running or producing things. The engineering and design subculture represents the group that designs products, processes, and structures to make the organization more effective. The executive subculture represents top managers who are concerned with the administrative and financial functions of the organization. These subcultures naturally share many assumptions of the total organization, but they also hold particular assumptions that reflect their occupations, unique experiences, and functions. These differences can be problematic if not resolved, as all three subcultures are necessary for organizational effectiveness. But, if harnessed, these differences can be an important and valuable organizational resource as they can provide a diversity of perspectives and interpretations of emerging problems.

Evolution

The study of organizational culture gained attention in the late 1970s and early 1980s as a way to characterize organizations and levels of stability in group and organizational behavior and to explain differences in organizational effectiveness, particularly among organizations within a society. Psychologists since the late 1930s had referred to the concepts of “group norms” and “climate,” but the concept of organizational culture developed much
later as the fields of organizational psychology and organizational behavior grew. In part, this reflected a move away from psychology and a focus on individuals toward a more systemic and integrated view based on social psychology, sociology, and anthropology. Two popular works on the topic of “corporate” culture published in 1982, *In Search of Excellence* by Tom Peters and Robert H. Waterman Jr. and *Corporate Cultures* by Terrence E. Deal and Allan A. Kennedy, were influential among practicing managers and fueled the growth of interest in the topic. Before that time, culture generally had referred to nationalities rather than organizations.

Research on organizational climate preceded research on organizational culture and consequently has a much longer history. Organizational climate is defined broadly as organizational members’ socially shared perceptions of key characteristics of their organization. Climate perceptions can vary in terms of breadth and can range from narrow domain-specific perceptions such as a service, innovation, or safety climate perception, to a single, multidimensional global perception. Although climate initially was developed as an integrating concept to explain underlying organizational processes and events, Schein and other scholars generally agree that climate is an overt or superficial manifestation of culture. In other words, organizational culture is expressed through organizational climate.

Organizational climate research is rooted primarily in a sociopsychological framework, while organizational culture is rooted in anthropology. Each tradition naturally relies upon different research methods for the study of its research object. Climate researchers generally use more quantitative approaches, while most culture researchers use more qualitative techniques. In addition, culture research often is more focused on how dynamic processes at work within an organizational context continuously serve to create and reshape the culture.

Researchers have studied organizational culture using a variety of methods, including surveys and questionnaires; descriptive analyses of organizational symbols, stories, and language; rites and rituals; ethnography; and clinical or action research methods. Given the variety in organizational culture research approaches, it is not surprising to find variation and diversity in conceptualizations of culture and the frameworks and typologies for assessing it. Schein’s organizational culture framework with its hierarchically ordered three levels suggests a variety of methods that can be used to assess each of the levels. Yet Schein throughout his work has opined that progress in the field of organizational culture has been hampered because researchers too quickly privileged abstract methods, such as questionnaires and surveys, at the expense of deep observation. Schein questions whether surveys can get at the deeper levels of shared tacit assumptions. Thus, it is not surprising to find ethnographic methods—such as participant observation and content analysis of organizational artifacts, such as stories, myths, rituals and symbols, and action research, such as process consultation or organizational development methods—at the top of Schein’s list of preferred methods.

**Importance**

Schein’s conceptual model has been widely cited by scholars and practitioners alike, suggesting that it is both theoretically and practically important. The essence of culture, its tacit assumptions that operate below the surface, are extraordinarily powerful influences on individual and organizational behavior. Culture importantly helps to explain observed differences within organizations and organizational life, such as conflicts and contradictions between occupational and functional subcultures. It also can help to explain the differences between organizations, such as capabilities of some organizations within an industry to change, adapt, and survive.

Schein’s model of culture isn’t something to be “tested” in the traditional research sense. Rather, it is an explanatory concept and sensemaking tool for researchers who seek to understand culture relative to a particular research question. For example, culture figures prominently in the management and organizations literature on system safety and accident causation in high hazard industries and health care. The dynamics of culture (in particular how organizations can enable communication and understanding across cultural boundaries or how organizations can embed flexible learning cultures) are central, for example, in the literature on high-reliability organizations (HROs). This literature examines organizations that operate sufficiently complex technologies to be at risk for potentially catastrophic accidents, but which appear to operate reliably and safely for long periods under very trying
conditions. The HRO paradigm does not necessarily examine or emphasize how accidents happen, but rather what organizations can do to promote and increase the likelihood of safe operations in complex systems. Schein's model helps to explain the challenges of embedding safety cultures in complex systems. For example, Schein's insights about multiple and competing professional and occupational cultures and subcultures (e.g., doctors, nurses, other occupations) is relevant to understanding why cultures of patient safety in health care are so elusive.

Schein's model also is important for leaders and others who have more pragmatic and practical concerns, such as a prospective employee who wants to understand what it would be like to work in a particular organization or a manager who wants to align her organization with a changing environment. Schein provides conceptual tools and methods for leaders and managers who want to assess culture's deeper levels so that they can be more effective in solving sticky organizational problems and guiding and managing change.

Kathleen M. Sutcliffe

See also Meaning and Functions of Organizational Culture; Norms Theory; Organizational Culture and Effectiveness; Organizational Culture Theory; Process Consultation; Process Theories of Change

Further Readings


Organizational Culture Theory

In order to understand how and why organizations function and how various kinds of employees experience their working lives, researchers have to go beyond such frequently studied variables as structure, size, technology, job descriptions, reporting of relationships, and so on to also study cultures in organizations. Culture researchers have shown how our scholarly understanding can be expanded by examining aspects of everyday life in organizations, including informal behavioral norms, rituals, stories and jokes people tell, organization-specific jargon that employees invent, and the physical arrangements of work, such as architecture and interior decor. Cultural researchers examine the interpretations that employees attach to these cultural manifestations. These interpretations differ because employees’ situations differ; the patterns of interpretation that underlie these manifestations constitute culture and relate in direct and contradictory ways to more commonly studied variables such as organizational structure as well as formal policies and practices. This entry defines manifestations of culture, reviews the evidence supporting three empirically grounded theories of culture, offers a theoretical overview that integrates these complementary views, and concludes with several research questions that have not yet been satisfactorily addressed.

Fundamentals

It is tricky to define culture in a way that includes the full variety of cultural theories, because the results of cultural studies have been contradictory. When forced to define culture, cultural researchers usually define culture quickly, often in consensual terms as some aspect of “shared values.” However, since values can be espoused but not enacted, most cultural researchers consider it essential to study a wide variety of cultural manifestations, not just espoused values. And although culture is often defined as that which is shared on an organization-wide basis, recent studies have found extensive evidence that organization-wide consensus is rare and often confined to highly abstract, platitudinous ideas that are interpreted in varying ways. A few studies define culture in terms of espoused values and
organization-wide consensus, excluding as “not culture” any data that do not fit this narrow definition. For all these reasons, definitions of culture can be misleading and can become self-fulfilling prophecies that blind researchers to data suggesting alternative points of view.

It is important, therefore, to regard definitions of culture with skepticism and look, instead, at what cultural researchers actually study, when they claim to be studying culture—in other words, scholars need to distinguish implicit and explicit (enacted) definitions and theories of culture and figure out which implicit theory of culture has guided a particular piece of research. Only then can we begin to understand why the results of cultural research have been so contradictory. This is not an ideal situation, but the results of cultural studies are plentiful and fascinating and well worth the effort of working toward cultural theory in an inductive manner.

**Manifestations of Culture**

The building blocks of any implicit cultural theory are the manifestations that a researcher chooses to study. The most important manifestations are defined below.

- **Formal policies and practices** are generally available in written form and include job definitions, reporting relationships, pay levels, promotion and evaluation criteria, and so on.
- **Informal behavioral practices** are norms of behavior. They may, and often do, conflict with formal policies and practices. Behavioral norms often differ among individuals and across groups of employees. For example, is overt conflict frowned upon or is it seen as an avenue to better decisions?
- **A ritual** is a scripted minidrama. It consists of a carefully executed sequence of activities, carried out in a social context (audience) with well-demarcated beginnings and endings (like a play) with well-defined roles for participants (like a script).
- **Organizational stories** are not personal anecdotes. They star organizational employees other than the storyteller and are often passed on from old employees to new. Morals of stories are often tacit, multiple, and inconsistent.
- **Organizational jargon** is the organization-specific language that only cultural insiders comprehend. For example, in innovative technology companies, employees speak of “idea hamsters” and “bleeding edge” products.
- **Humor** includes irony and sarcasm. Ironically, work-related humor is usually unfunny to cultural outsiders.
- **Physical arrangements** include dress norms for various types of jobs, architecture, and decor, including whether work takes place in a dirty and noisy shop floor, a cubicle-filled open room, or relatively luxurious offices with closed doors.

Implicit in this list of cultural manifestations is the argument that culture is not just ideational. It includes material aspects of work (physical arrangements, pay levels). Culture also includes formal practices and policies, which reflect the verticality of a hierarchy, the numbers of reporting relationships managers have, and overall, the structure of an organization. It includes not just values, cognitions, and feelings but also how people actually behave. This is a broader definition of cultural manifestations than some assume, but without studying the material and structural attributes of work, behaviors as well as meanings and interpretations, a researcher simply cannot begin to understand why people think and feel as they do. A purely ideational approach to the study of culture is too constricted to offer deep and context-specific interpretation of the patterns of meaning that constitute culture. The wider the range of manifestations studied (generalist rather than specialist studies), the more enriched and insightful the cultural portrait is likely to be.

**The Complexity of Culture**

Richer, more complete studies acknowledge the complexity of cultural phenomena. Such studies seek depth of understanding. They do not simply assume that cultural phenomena generate organization-wide consensus, are internally consistent, or are clear. Instead, these studies consider degree and content of consensus, consistency, and clarity to be empirical questions. Each of these issues is discussed in more detail below.

**Depth of Interpretation**

Edgar Schein has cogently argued that the study of manifestations, by themselves, is not enough. A cultural portrait must have depth of understanding to see the patterns that underlie interpretations.
of any manifestation. He distinguishes three levels of depth: artifacts (which are labeled manifestations above), and two kinds of unifying themes of interpretation: values (such as the importance of egalitarianism or concern with product quality) and fundamental assumptions (such as whether one has a short- or long-term perspective or how much weight one puts on concern for others’ well-being).

The difficulty with searching for fundamental, underlying assumptions is that if a researcher goes deep enough, he or she may find fundamental assumptions that are common to most members of a regional, industrial, or even national culture. This implies that cultural borders are permeable so that an organization should be seen as a nexus, where elements of the surrounding cultures come together. Some cultural attributes that surface in organizations may be unique to that organization, or at least distinctive, while others will reflect cultural differences in the larger society. Claims of cultural uniqueness or distinctiveness should be treated as an empirical question, because attributes that someone may believe are unique or distinctive may in fact be familiar to experienced observers of a wide range of organizations.

**Degree of Consensus**

Claims about organizational consensus are often overstated. A relatively large and representative sample of cultural members must be studied, if a researcher is going to generalize about an entire organization. Limited samples (such as studies of managers and professionals only) are studies of, at best, a subculture, not an entire firm. Organizations contain overlapping, nested subcultures. The boundaries of these subcultures cannot be assumed, although levels of a hierarchy (such as top executives, middle managers, and hourly employees), functional specializations (such as engineering and marketing or accounting), and demographic groupings (such as Hispanic employees) sometimes evolve into subcultures. Subcultures can reinforce each other, conflict, or simply exist independently. Some themes generate varied interpretations (ambiguity) without coalescing into any recognizable organization-wide or subcultural consensus.

**Degree of Consistency**

Another way to see patterns of interpretation is to examine whether one theme is consistent with another. For example, a concern for fiscal responsibility may be seen as inconsistent, at least by engineers, with a commitment to product quality. Meanings associated with one kind of manifestation may be inconsistent with another. For example, a formal policy may conflict with informal behavioral norms, as when overtime records are regularly falsified or expense account rules are disregarded. The patterns of meaning in a culture will include both consistencies and inconsistencies, and some cultural elements will be ambiguously related—neither consistent nor inconsistent. To focus only on the consistent elements of culture would require excluding much of the complexity of organizational life.

**Degree of Clarity**

Aspects of a culture can vary in their clarity. Sometimes, meanings and interpretations are clear, as when a formal policy is spelled out in explicit detail or a contract is drawn up. In other instances, what seems clear to one person may seem unclear to another. An aspect of a culture, for example, a theme that is expressed in highly abstract terms (such as “we have a deep concern for employee well-being”) is open to a wide range of interpretations. Irony, sarcasm, ambivalence, ignorance, and paradox all create and express a lack of clarity. Although researchers may be fond of clarity and seek to write about cultures clearly, it cannot be assumed that clarity is an attribute of culture; rather, degree of clarity varies.

**Three Implicit Theories of Culture**

Three implicit theories of culture dominate cultural research. Many cultural studies, particularly in the United States, work with an implicit cultural theory of integration: that cultures in organizations are characterized by organization-wide consensus, internal consistency, and clarity. If not, this is tacitly considered an undesirable shortfall that should be remedied.

In contrast, differentiation studies show how status, functional specialization, contact (through, for example, project teams), and demographic commonalities create subcultures. These subcultures are seen as coexisting in harmony, conflict, and emotionally neutral independence, without much evidence of organization-wide consensus. Clarity and consistency can be found in these studies but only within the boundaries of a subculture.
Organizational Culture Theory

*Fragmentation* studies portray ambiguity as the heart of culture, with little evidence of organization-wide and subcultural consensus. Multiple meanings generate ambiguities in these studies, showing irreconcilable tensions, paradox, and ironies. These fragmentation studies are characterized by lack of consensus, lack of consistency, and lack of clarity. Fragmentation is not the absence of culture; it offers an exploration of the ambiguities and uncertainties that are inherent in organizational life.

**Importance**

Each of these three implicit theories (integration, differentiation, and fragmentation) has produced a large body of supporting empirical evidence. Martin, reviewing this body of conflicting evidence, argued that because all three, apparently contradictory, theories have strong empirical grounding, any organization should show evidence supporting all three theoretical perspectives. A variety of authors, working in various industries and nonprofit settings, and in a variety of countries, showed that in any organization studied, evidence supporting all three theoretical perspectives, simultaneously, can be found. In support of integration theory, some interpretations generated organization-wide consensus, consistency, and clarity. In support of differentiation theory, other interpretations coalesced within subcultural boundaries. Still other interpretations reflected fragmentation theory, focused on ambiguities, and showed no evidence of consensus, consistency, or clarity. Thus, when a study shows support for, or assumes the validity of only one of the three theoretical perspectives, support for the other two implicit cultural theories would have been forthcoming, if a three-perspective theory of culture were utilized.

**Future Directions for Research**

Three implicit cultural theories have dominated research to date. Crucially important questions and problem areas remain insufficiently explored.

- Is there a fourth or a fifth viewpoint that would add something new?
- We have too few studies of cultural change, and those we have seldom explore how all three perspectives coexist and change. Our conceptualizations of change have been too narrow. Majken Schultz and Mary Jo Hatch have argued that organizations and their members constantly switch from one implicit cultural theory to another, with ease. Others posit that cultural change is not planned or discrete but a state of constant flux. Cultural change, planned and unplanned, is perhaps the arena most in need of research.
- There are abundant studies that claim that a culture has been successfully created, managed, or altered, often by a single leader. Such claims are very difficult to substantiate in an empirically convincing manner, as are claims of a link between some kind of culture (usually integrationist) and organizational effectiveness or profitability. Until solid evidence of such comforting claims is forthcoming, which may be unlikely, such claims should be regarded as unproven.
- Studies that use quantitative measures of culture (usually seeking to compare cultures) generally rely on researcher-created measures that may not reflect cultural attributes or interpretations considered important by cultural members.
- Many researchers have begun to explore overlaps between cultural and other theories, such as organizational identity, institutional theory, organizational ecology, and positive emotions in organizations. What other theoretical traditions might inform and be informed by cultural studies? Where else might the three perspectives of integration, differentiation, and fragmentation be applied?

**Applications of Cultural Research**

As suggested by the list of unresolved problems above, management should be very careful about moving, in any easy way, from theory to application in the cultural arena. In spite of the claims of many integrationist studies, cultures in organizations are seldom dominantly characterized by internally consistent, organization-wide consensus around clear meanings and shared values, however attractive such ideas may be to executives who would like employees to share their viewpoints. The idea that a leader can create a culture, cast in his or her own image, is seductive but misleading—a potentially expensive way to approach planned change. Attempts to control or impose culture from the top down are not likely to succeed and may well generate a boomerang effect—resistance and skepticism. Claims of any link between particular kinds of
Organizational Demography

Organizational demography theory maintains that while it may be somewhat overstated to argue that demography is destiny, many organizational processes are profoundly affected by the distribution of demographic characteristics in the workforce. Therefore, it is incumbent on managers to understand demographic effects and focus on managing demography as one lever to effect organizational functioning. As one example, demographic diversity, for instance, in age or organizational tenure, can lead to intercohort conflict and, as a result, problems with communication and integration among employees and increased turnover. As another example, the age distribution of the workforce has important implications for medical costs, pension costs, and the need to recruit replacements for retiring workers, illustrating the important effect of demography on personnel planning. Women’s career processes depend, in part, on the proportion of women in the company. Rosabeth Moss Kanter described the problems confronting women who were so few in number as to be tokens, while other research has shown the effects of the proportion of women on salaries (other things being equal, higher proportions of women lead to lower pay) and on the likelihood of women reaching senior executive ranks (greater numbers of women, particularly in management, lead to enhanced promotion chances for women). By focusing attention on manageable, observable, distributional characteristics of the work force, organizational demography emphasizes the effect of “facts on the ground” properties on organizational management. This entry explores the definition and measurement of organizational demography, some of its substantive


See also Competing Values Framework; Cultural Intelligence; Managing Diversity; Organizational Assimilation Theory; Organizational Culture Model; Organizational Identity; Organizational Learning; Organizational Socialization

Further Readings
predictions, and considers its importance and place in management research and practice.

Fundamentals
Organizational demography borrowed its essential insight—that demographic distributions could shed light on important social processes—from analyses that had typically occurred at the level of societies or other geographic units. For instance, it is well known that people’s spending and saving patterns vary with their age, a fact that has implications for a country’s asset prices—when the percentage of the population at an age to begin liquidating savings for living expenses rises, there will be a downward push on asset values—as well as levels and patterns of consumption, because people in their childbearing and rearing years spend money differently from those either younger or older. Political attitudes are somewhat age dependent, so the conservatism or liberalism of an area depends in part on the age distribution of its population. A recent example of cohort effects on political decisions is attitudes toward gay marriage. In part because of their greater familiarity with acknowledged gays, younger people are much more likely than older ones, at least in the United States, to favor the legalization of gay marriage and other laws that provide equal rights. This fact has led to a steady increase in the legalization of gay marriage as older voters die off and are replaced by younger ones and also to the observation that the legalization of marriage among gays is only a matter of time, as each new cohort exhibits higher support for this policy than the one before it. As another example of societal-level demographic effects, the rate of intermarriage across racial or religious groups depends on the relative size of the groups—other things being equal, those in a relatively small group are more likely to marry outsiders because the odds of meeting someone from one’s own group is smaller simply as a function of relative group size.

But perhaps the most fundamental theoretical insight from demography relevant to understanding organizational processes is the importance of cohort effects. Groups of people who share a similar, and potent, experience at a formative time in their lives will tend to have similar views and, as a consequence of the shared experience and attitudinal similarity, will bond together more than they will with others that have not had the same life course similarities. One can observe cohort effects on societies: People who went through the Great Depression have different attitudes toward debt, saving, and consumption than those that never experienced that financial trauma. Cohort effects also occur in companies: People present at an organization’s founding are bound together in ways that later entrants are not.

Organizational demography proceeds from the well-established principle that similarity is a fundamentally important basis of interpersonal attraction and that many organizational processes and interpersonal processes within organizations reflect a preference for homogeneity. Similarity is defined not just by homogeneity in attitudes and values but also by similarity in age, organizational tenure, educational and occupational background, race, and gender. Because of the preference for similarity, organizations are more homogeneous than the workforce as a whole. A related perspective, upper-echelons theory, argues that educational and functional background imprints executives with a perspective on the world, including the information to which they pay the most attention, that affects their strategic choices. The fundamental presumption is, then, that organizational decisions and processes can be predicted, at least to some extent, by the demographic characteristics of the relevant groups.

Because similarity is such a fundamental concept in organizational demography, the measurement and operationalization of similarity is crucial. Various measures have been employed, including the Gini index and the coefficient of variation, both of which measure the degree of inequality and variation, and a measure of Euclidean distance between a given person and others in the group. One important hypothesis is that groups that are more dissimilar, that have greater heterogeneity or distance among members, will experience (a) more difficulties in communication, (b) less social integration and cohesion, (c) more conflict, and, as a consequence, (d) higher levels of turnover. This is a group-level prediction about turnover rates and also about a number of intermediate processes including communication frequency and conflict that affect turnover. A related hypothesis holds that the greater the diversity at the level of the work unit, the lower the level of psychological attachment exhibited by group members. At the individual level of analysis, the hypothesis is that it is those individuals who are most dissimilar to and socially distant from the others in their work unit
who are the most likely to leave and to be the least committed to their work unit.

The effects of demographic similarity also play out at the dyadic level. The hypothesis is that to the extent that superiors and subordinates are more similar along demographic characteristics, such as race, age, education, and so forth, the higher the performance ratings subordinates will receive, the less role ambiguity they will experience, and the greater liking there will be in the superior-subordinate pairs.

A second line of argument hypothesizes that the relative size of demographic groups determines their power. One hypothesis consistent with this line of reasoning is that the higher the proportion of women in more senior leadership ranks, the greater the likelihood that—controlling for other things such as years of experience, education, and performance—women will be promoted and receive raises. Another hypothesis consistent with such reasoning would be that the higher the proportion of people with low (or high) number-of-years-of-service in a unit, the greater their power, as assessed by representation on important committees and task forces, influence on decisions, and formal governance arrangements that provide them more or less control over decisions.

The third set of hypotheses proceeds from arguments about the effects of demographic backgrounds on strategic decision making. For instance, in one study, researchers argued and found that top management groups with lower average age, shorter organizational tenures, more education, and more heterogeneity in educational specialization were more likely to lead organizations that undertook greater strategic change. Another study examined the effect of top management team demography on innovation, also finding that educational heterogeneity was associated with banks being more innovative.

Importance

The publication of the first theoretical arguments about organizational demography in the early 1980s stimulated quite a bit of empirical research. As already noted, upper-echelons theory, which also argued for the importance of demographic characteristics of the top team, appeared at approximately the same time. Research in the organizational demography tradition generally supported the predictions. This is not surprising, as similarity is such a fundamental basis of interpersonal relationships and such an important factor in understanding the working of many organizational processes ranging from recruiting through social networks to appraisals of others’ job performance.

Concepts related to organizational demography continue to appear in both the research and the popular literatures. For instance, the fact of the baby boom following the end of World War II means that the coming years will see many exits from the workforce as people from that generation retire or die. In some industries that have not grown over the years, including parts of the public sector, the oil and gas industry and the nuclear power industry, replacing the knowledge and skills of those about to leave their organizations is a subject of discussion in personnel planning efforts. There has been much discussion, and many books and articles have been written, about cohort effects on job preferences, work values, and, when cohorts with important differences have to coexist, intercohort conflicts. Discussion of the millennials, generation X, and so forth implicitly acknowledge the importance of cohorts and cohort effects as well as the possibility of intercohort conflict and resulting organizational stresses and strains.

Nonetheless, it seems fair to state that not much empirical work currently proceeds from organizational demography ideas. After about 15 years of great empirical attention, the research focus in management has moved on to other topics. But as the examples of replacement and work values that vary across cohorts illustrate, demography remains a substantively important way of understanding organizational processes.

At the same time, it should be acknowledged that particularly the original work on organizational demography was not without its critics. Demographic processes presumably work through various mechanisms such as the tendency to communicate with similar others, to share an orientation to the world with those of your same cohort, and so forth. Much, although certainly not all, of the research on organizational demography explored demographic effects on outcomes such as turnover or individual-level organizational attachment without measuring the intervening processes and mechanisms that presumably produced those effects. As originally proposed, that shortcut was one advantage of organizational demography: Demographic information was generally accessible and did not
require the collection of communication, attitudinal, or other data in order to predict and explain a number of important organizational-level outcomes. But that shortcut also left much demographic work showing somewhat impoverished, as researchers did not always go on to answer the question of why demographic effects actually occurred.

Because of the importance of demographic processes and because the mechanisms through which such processes have yet to be fully empirically explored, organizational demography remains a substantively important and fertile area for management research as well as a crucial focus for human resource and other management professionals.

Jeffrey Pfeffer

See also Attraction-Selection-Attrition Model; Decision-Making Styles; High-Performing Teams; Managing Diversity; Multicultural Work Teams; Upper-Echelons Theory

Further Readings


ORGANIZATIONAL DEVELOPMENT

Organizational development (OD) is a process of planned change in an organization that is (a) systemwide, (b) based on open system theory and the application of behavioral science knowledge, (c) involving organizational members in the process, (d) long-range (months if not years), (e) grounded in humanistic values, (f) aimed toward modification of the organization’s culture, and (g) intended to improve an organization’s capacity for managing change and development in the future. Even though this definition of OD is rather elaborate, it does not capture the essence of what this field is all about. What follows in the next section, Fundamentals, therefore, is coverage of the theory, conceptual frameworks, and practice that compose the field of OD. Fundamentals is then followed by a section on education and professional development; in other words, how does one learn about OD? In the next section, on the evolution of OD, the entry answers the question, Where did OD come from? And then in the final section, the question of OD’s importance is addressed. References that are primary to this coverage of OD are provided at the end.

Fundamentals

The content and substance of OD may be considered in three categories: theory, conceptual frameworks, and practice.

Theory

There is no all-encompassing, singular theory of OD. Although not a theory of OD or organizational change as such, most OD practitioners think nevertheless in terms of open system theory, that is, an organization has input from its external environment and translates that input into throughput within the
organization; thus, throughput is producing a service and/or product, which in turn becomes output to the consumer, and the output—performance, sales, profit, consumer satisfaction, and so on—becomes feedback for the organization in the form of input and the cycle continues. For most OD practitioners, the metaphor of choice is an organism. An organization can be considered as a living, breathing organism that for survival is dependent on its external environment. Thus, astute practitioners start with external forces in the organization’s environment—for example, the marketplace, competitors, changing technology, or workforce talent. This metaphor, organism, goes hand-in-hand with open systems theory, which comes from cell biology. Comparisons between a living cell and an organization help to explain and understand certain concepts associated with change—chaos, disequilibrium, self-organizing, and the like.

Although there is no all-encompassing theory of OD, there are a number of minitheories that underlie the field. Mini in this case means that the theory relates to some aspect of OD but not to its entirety. Together and across three organizational levels, these minitheories provide a foundation. From an individual perspective, theories of motivation are relevant as is research on job satisfaction and reward systems. From a group perspective, Kurt Lewin’s work on norms and values, the work of Chris Argyris on interpersonal competence and organizational learning, and Wilfrid Bion’s theory on the collective unconscious undergird OD practice. And from a total system perspective, Rensis Likert’s focus on consensus and participative management, the work of Paul Lawrence and Jay Lorsch on contingency theory regarding organizational structure, and Edgar Schein’s contribution on organizational culture provide additional theoretical foundation for the field of OD.

Conceptual Frameworks

Experienced OD practitioners follow a framework for their work that is based on a concept that is known as action research. This means that OD practice is data based. Data are collected from the organization and the action that follows—a change intervention—is derived from the data that were collected in the first place. These data can be summaries of interviews, survey results, archival information, observations, or combinations of these methods. The practice of OD therefore follows Kurt Lewin’s dictum: “No action without research and no research without action.”

OD practitioners also rely on organizational models, conceptual frameworks that depict and help to simplify a large, complex organizational system. Four such models are the most common ones: Marvin Weisbord’s six-box model, perhaps the most popular one in OD practice, consists of (a) purposes, (b) structure, (c) rewards, (d) helpful mechanisms, (e) and relationships, all surrounding (f) leadership, the coordinating function, in the center of a circle. David A. Nadler and M. L. Tushman’s congruence model incorporates many of Weisbord’s “boxes” and adds more complexity as does Noel Tichy’s organizational model which emphasizes levers (boxes) for change. The fourth and more recent model is by Burke and George H. Litwin, which relies, like the other three, on open systems theory. Burke and Litwin propose that organizational performance and change should be viewed as either transformational or transactional so that appropriate action can be taken based on the scope of the change effort.

Conceptual frameworks for how planned organizational change should occur also exist. John Kotter has developed an eight-stage process, including such components as creating a sense of urgency, developing a vision and strategy, and so on. Jerry Porras and Robert Silver’s in their framework suggest that cognitive change precedes behavioral change, whereas Burke, relying on the James-Lange theory, takes the opposite view that behavior change should precede attitude and changes in one’s mental set. The debate about which comes first can be summarized: Organizational change should begin with an attempt to change people’s thinking—their beliefs and attitudes—then behavioral change will follow versus an attempt to change organizational members’ behavior initially, and subsequently, their attitudes will shift.

Practice

Most practitioners in OD ground their consultation in Kurt Lewin’s three-phase model. The initial phase, unfreezing, consists of activities that (a) test the organization’s readiness and motivation for
change and (b) attempt to confront the organization, particularly executives and managers, with relevant forces in the external environment (changes in technology, consumer unrest, competition, and the like) that need to be considered and dealt with for long-term survival and effectiveness. This latter point, in short, can be referred to as “creating a sense of urgency.” The second phase, changing, refers to movement in the organization toward change goals, that is, planned interventions in the system that facilitate this action (movement) toward the change goal(s) such as team building, creating or revising the organization’s mission and strategy, inter-unit conflict resolution, survey feedback, structural modifications, and so on. The third and final phase, refreezing, is a matter of integrating the changes into daily operations and management of the organization. Integrating mechanisms can be a new reward and incentive system linked to new directions, a new strategy for dealing with consumer dissatisfaction, revised information technology system, launching a six-sigma initiative to improve quality, and so forth.

Others such as Edgar Schein have elaborated on Lewin’s three-phase model by explaining the importance of providing psychological safety for organizational members during the unfreezing phase. Other phased models have been developed as well, such as the one by Richard Beckhard and Reuben T. Harris on transitions, that is, defining the present state of the organization, then moving toward the change goal—that is, the transition state—and establishing the change objectives which lead to the future state. William Bridges developed another transition model which describes the importance of endings (leaving the present state), moving through a neutral zone, and then adopting new beginnings. Bridges explains the behavior required for each of these three phases for ultimate realization of the change both at an individual as well as organizational level. The term phase is deliberate, that is, these steps are not discrete but blend into each other.

From the standpoint of what specific steps and actions the OD practitioner takes, a sequencing process has also been described. Although there are some language differences, most frameworks follow a sequence of entry—establishing contract and rapport with the client, that is, the person(s) in the organization responsible for the change initiative (the actual change agent)—contracting—an agreement, usually in writing, on what both the OD practitioner and the client are going to do, including what the outcomes are expected to be. Next is data gathering—collecting data from and about the organization—then diagnosis—analyzing the data and providing some interpretation and feedback—reporting to the client a summary of the data, organized and analyzed. Intervention follows—taking action steps that are based on the diagnosis. Evaluation questions include, did the intervention(s) result in the intended outcome? Separation concludes the consultation on the part of the OD practitioner in a satisfactory manner for both parties, the practitioner and the client.

A satisfactory conclusion will probably mean that the interventions conducted in the organization met the three criteria for effectiveness specified by Chris Argyris. He stated that to be effective an intervention must (a) provide valid and useful information—valid meaning the client agrees that the data underlying the action accurately reflect the state of the organization at the time and that independent diagnoses lead to the same intervention; (b) be one of free choice—the client makes the decision regarding the action to be taken; and (c) lead to internal commitment—the client has a sense of ownership of the choice(s) made and feels responsible for implementation.

Examples of OD interventions by organizational level include the following: individual—coaching, job/work redesign, and training and development; teams and groups—process consultation, role negotiation, appreciative inquiry, responsibility charting, team building, and virtual teams; intergroup relations—intergroup conflict resolution and cross-functional task forces; and total organization—large group interventions, survey feedback, strategic planning, and implementation.

Before ending this section, a final note of clarification regarding OD practice is required. The planning of OD work is a linear process—Phase 1 followed by Phase 2, and so on, but the implementation of organizational development and change is anything but linear. Organization change rarely goes according to plan. The process is usually messy, chaotic, and frustrating. People simply don’t behave according to plan. Keeping the change goal(s) clearly in mind, practitioners must (a) assume that unanticipated reactions to and unintended consequences of change interventions are to be expected and (b) immediately attend to these reactions and consequences by correcting mistakes, reordering priorities, paying more
attention to the political processes, and reminding organizational members about what aspects of the organization will not be changing as well as those that will be affected. Not attending to these unintended consequences and unexpected reactions to the change initiatives causes a slowdown if not reversal to the plans, and momentum is lost.

**Evolution**

Evolution rather than “birth” is a better characterization of the beginnings of OD; in other words, where did OD come from? Three precursors were extremely important to the evolution of OD: sensitivity training, sociotechnical systems, and survey feedback.

**Sensitivity Training**

Two versions of this educational process of group dynamics emerged around the same time, circa 1946, on either side of the Atlantic. On the American side, it was the T-group (T for training in laboratory training) and developed by the National Training Laboratories, at that time a department within the Adult Education Division of the National Education Association. On the British side, it was the *human reactions* conference, a major arm of the Tavistock Institute in London. The theoretical father and founder of the T-group was Lewin, whereas the *human relations* conference’s theoretical father and founder was Bion. Both versions emphasize individual change and are composed of eight to twelve people in a group who consider the primary source of learning the behavior of the group members themselves. A major difference between the two versions is that the T-group focus is on interpersonal relations and individual feedback whereas the human relations conference emphasis is on issues of authority, roles, and boundaries.

Some 15 years after the emergence of the T-group, this form of education and training began to be used as a lever for change in organizations. Sensitivity training with members of the same organization was composed of a cross section of the organization so that individuals would not be in a group with their work-unit colleagues. The assumption was that if a critical mass of organizational members were trained, then the organization itself would change. Such interventions in the 1950s were conducted in Union Carbide with Douglas McGregor in the lead and at Esso (now Exxon-Mobil) and at the Naval Ordnance Test Station, China Lake, California. This kind of training later became known as team building.

Also during the 1950s decade, McGregor and Beckhard, consulting with the General Mills company, introduced teamwork activities in various plants. They referred to their work as “bottom-up” management but eventually did not like the term and instead chose “organization development.” Others (Herbert Shepard, Henry Kolb, and Robert R. Blake) were doing similar work at Esso. They eventually also adopted the label of organization development to describe their change work.

**Sociotechnical Systems**

Also during the 50s decade, creative work regarding change in organizations was emerging. Eric Trist and Ken Bamforth of the Tavistock Institute were consulting with a coal mining company in northern England. The company had installed a new method of mining that was supposed to increase productivity, but the opposite had occurred. Trist and Bamforth found that the new technology had affected the way the miners had worked together—from a team effort to a more individualistic mode of mining the coal. The company had installed new machinery but paid little attention to the impact this change would have on the way the miners worked together. Teamwork was very important to them. Trist and Bamforth suggested to the company executives that they rearrange the operations so that a form of teamwork could be installed again: in other words, to pay equal attention to the social implications of the change not just the technological intervention. Following the consultants advice the executives experienced a significant increase in productivity coupled with a significant decrease of absenteeism among the miners. From the standpoint of organizational change, what emerged as a consequence of the consulting effort of Trist and Bamforth was the concept of sociotechnical systems and that an organization is simultaneously a social and a technical system. The early bias of OD was toward the social system, but by the 1960s, it was clear that both subsystems and their interactions must be considered for effective organizational change to occur.

**Survey Feedback**

The subdisciplines of psychology that have helped to shape OD are industrial-organizational
psychology and social psychology. Survey feedback emerged from both of these subdisciplines. Again, around 1946, at the University of Michigan, Likert founded the Survey Research Center. And with the premature death of Lewin at that time, his Center for Group Dynamics at Massachusetts Institute of Technology (MIT) was moved to the University of Michigan, also under the direction of Likert. These two centers became the basis for the establishment of the Institute for Social Research at Michigan with Likert as its first director. Survey feedback therefore emerged from the combined expertise of the two centers—survey work and group dynamics. Within a year of the institute’s beginnings, questionnaires (surveys) were in use to assess for organizations’ employee morale and attitudes. A member of the institute and colleague of Likert was Floyd Mann. He had noted that when surveys were conducted in organizations and data were summarized and analyzed little was done with the information. Unless managers discussed the survey results with their subordinates nothing happened, no improvement in the workplace occurred. Moreover, without discussion and action taken, matters would often become worse, that is, for example, frustration on the part of employees would arise with their having taken the time to answer the survey and then never hearing anything about the findings. Mann developed a systematic way of dealing with this problem. First, a survey would be conducted with all employees in the organization, including management. Second, a reporting of the survey results in summary form would be provided for all those who had answered the survey, in other words, “feedback.” The feedback occurred in phases, beginning with the top executives and then passed downward via the formal hierarchy and within units or work teams. Mann referred to this cascading process as the “interlocking chain of conferences.” Each work unit received two sets of feedback—a summary of the overall organizational results and a summary of its unit’s results. And each manager would participate in this process twice—as the manager of his or her work unit and as a member of his boss’s work unit, that is, the interlocking chain to use Mann’s words. Third, once the feedback was discussed, analyzed, and understood, the manager with his or her work unit members would then plan action steps for improvement based on the data from the survey.

These three precursors—sensitivity training, sociotechnical systems, and survey feedback—were central to the emergence of OD. While sensitivity training, as such, is no longer a commonly used intervention in OD, its roots are in the form of team building today. Sociotechnical systems and survey feedback as originally conceptualized and applied remain much the same today as when they both originated.

Finally, it should be noted that there are other precursors to OD such as the research that was conducted at the Hawthorne Works of Western Electric in the late 1920s and early 30s and the even earlier works of Frederick W. Taylor, but the three summarized in this section were the ones that had the greatest impact on the formation of OD.

**Importance**

When OD emerged in the late 1950s and into the following decade, there was excitement and enthusiasm about this burgeoning field. And much of the promise associated with OD has been realized. Research regarding the effectiveness of OD as a mode of change has been more positive than negative, OD practitioner groups and networks are plentiful, the field is more global today, the literature on OD continues to flourish, there are numerous academic programs on OD in colleges and universities, and the Organization Development and Change Division of the Academy of Management is very much alive and well.

Occasionally, a course on OD may be taught at the undergraduate level in a college or university but more typically is at the graduate level. There are at least three options for aspiring OD practitioners. One option is simply to take a course, say, an elective in a graduate program at the master’s level (MBA, MPA, for example). A second option is to enroll in a graduate program, either master’s or doctoral, such as organizational psychology, organizational behavior, or industrial-organizational psychology and concentrate on OD-related courses, such as organizational change, group dynamics, conflict management and resolution, coaching and counseling, and organizational dynamics and theory. Some universities offer a degree program, master’s or doctorate devoted to OD, which is a third option.

Programs that provide a certificate but not a degree are plentiful in the United States. Colleges
and universities offer such programs as well as organizations, profit and nonprofit, that are in the business of some form of training and development. Also, these kinds of organizations and institutes often provide conferences of 2 or 3 days devoted to OD, and some offer professional-development workshops just prior to the larger conference that focus on OD or some aspect of OD, such as team building, conflict management, coaching, and so on. Because OD is a field of study and practice and not a profession, choosing an educational route or professional development option is not all that obvious. It is therefore wise for an aspiring OD practitioner to seek advice from more experienced practitioners about such choices. In any case, attending a 1-or-2-day workshop on OD to see if this is a field that one would want to pursue is usually a good idea.

Yet if we examine the definition of OD provided in the opening paragraph of this entry, particularly parts that refer to systemwide, long-term, cultural modification and to increasing capacity for managing change, involving all organizational members, we would have to conclude that very few OD efforts conform to and realize these objectives. Most OD practitioners use the processes and techniques that the field comprises, such as team building, conflict management, survey feedback, appreciative inquiry, and multirater feedback systems, but in the end, they do not practice OD strictly according to certain aspects of the definition of the field—systemwide change and especially those aspects concerning culture change. Moreover, recent evidence has shown that organizational change efforts whether planned or not rarely succeed. The failure rate approaches 70%, and for mergers and acquisitions, it is even higher, approximately 75%.

The promise of OD yet to be realized is that the practice does not adequately match the need. How can OD better match this need? By paying much more attention to six areas that have been neglected, according to Larry Greiner and Thomas Cummings; these are: top management decision making, strategy formulation, mergers and acquisitions, globalization, alliance and virtual organizations, and corporate governance and personal integrity. The practice of OD has much to offer in each of these six areas. And involvement in these areas would help to ensure OD’s relevance for the future.

W. Warner Burke

Further Readings


Organizational Ecology

Organizational ecology is a research paradigm in organizational sociology that provides a theoretical framework for analyzing the evolutionary dynamics of organizations. Organizational ecology builds on a core sociological premise that concerns the duality of actor and position—the behavior of social actors
Organizational Ecology is shaped by their position in social structure but, collectively, the behavior of actors over time also spawns and effectively constitutes the parameters of social structure. The collective nature of the process requires that all relevant social actors are observed at once as members of a certain population—a mandate which calls for an ecological approach. And to make the dynamic nature of the process analytically tractable requires the use of evolutionary theories. Organizational ecology originated with Michael T. Hannan and John Freeman’s 1977 programmatic paper and has since grown to comprise multiple theories that study how the evolving interdependence among organizations both shapes and is shaped by the features of social structure. The three central theoretical lenses of the field are discussed below along with their evolution and contemporary relevance.

Fundamentals

Density-Dependent Legitimation and Competition

Density-dependence theory posits that the evolution of new organizational populations is driven by two processes (legitimation and competition) that are hard to observe directly but are both driven by the proliferation of organizations that belong to the population. The two processes operate concurrently but with different strength. In the formative years of a population, increases at low-level density drive legitimization more than competition, while the opposite occurs when density increases at high levels.

Legitimation is a process by which an organizational form becomes institutionalized in the sense that it attains a taken-for-granted social standing. This process entails the formation of social and cultural rules that define the form’s identity until the form itself becomes an institutionalized blueprint for organizing and conducting social action. Unlike legalization, which has specific bureaucratic-legal implications explicitly stated in a regulatory framework, legitimation is a broader social phenomenon that takes time to develop. Its dynamics are hard to observe directly. In ecological theory, the diffusion process by which the social audience learns about and becomes accustomed to a new type of organization is driven by that type’s proliferation (organizational population density); hence, constitutive legitimation is known as density-dependent legitimation. The competitive process measured by population density captures the diffuse competition among organizations. Similar organizations exhibit resource homogeneity and thus seek to acquire the same resources. Even if these organizations are unaware of each other’s existence or do not view each other as direct competitors, their resource homogeneity means that they compete indirectly or diffusely. The greater the number of organizations with homogeneous resource dependence, the more intense the competition for resources among them becomes. Formally, the theory predicts that density increases legitimation at a decreasing rate (until a form becomes taken-for-granted and the ceiling effect of legitimacy is reached) and competition at an increasing rate. The empirical predictions based on these relationships with respect to organizational foundings and failures predict a U-shape between density and mortality and an inverted U-shape between density and foundings. In other words, low-level increases in population density improve survival chances and stimulate new foundings (legitimation), but high-level increases in density elevate failure hazards and depress new organization building (competition).

Niche Width and Resource Partitioning Theory

As Hannan and Freeman originally explained, the niche width of an organization refers to the variance in its pattern of resource utilization. In terms of this concept, organizations pursuing strategies based on performance over a wide range of environmental resources possess a wide niche and are classified as generalists. Organizations following strategies based on performance within a tight band of resources are considered specialists—their niches are narrow. Organizational ecology contains two major theory fragments based on niche width, the original theory of Hannan and Freeman, and Glenn R. Carroll’s 1985 theory of resource partitioning. It is confusing that the two theories use the generalist-specialist concept in somewhat different but related ways. Each reflects an intuition about resource utilization but makes different assumptions about how resources are distributed and related. This distinction is clarified below.

The original theory of organizational niche width addresses what Freeman and Hannan call the “Jack-of-all-trades” problem; namely, how does an organization cope with the demands of many
different (or changing) environmental conditions when only one is confronted at any particular point in time. According to a 1983 article by Freeman and Hannan, niche width reflects “tradeoffs between tolerance of widely varying conditions and capacity for high performance in any particular situation. Specialist populations follow the strategy of betting all their fitness chips on specific outcomes; generalists hedge their bets” (p. 1119).

The original theory builds on the observation that a specialist organization designed well for a particular environmental state will always outperform a generalist in that same state. This is so because the generalist organization must carry extra capacity—appearing as slack at any point—that allows it to perform adequately in other environmental states. To quote Hannan and Freeman’s seminal 1977 article, the specialist “maximizes its exploitation of the environment and accepts the risk of having that environment change,” while the generalist “accepts a lower level of exploitation in return for greater security” (p. 948). This theory of niche width predicts that specialists do better in environments that are stable or certain and in environments where change is fine grained (short durations in environmental states). However, when environmental variation is high and coarse (long durations in states), specialists have trouble outlasting the long unfavorable periods, and the generalist strategy conveys advantage. The original niche width theory assumes that environmental resources and conditions are disjointed or highly dissimilar. Because of this assumed dissimilarity, generalist organizations that straddle two different resource pockets, or conditions, pay a price in terms of overhead or excess capacity.

Resource-partitioning theory uses a different assumption about environmental resources. It holds that the different pockets, or conditions, are not so dissimilar. This shift is important because when environments are not so dissimilar, generalists may not be burdened by the straddle (as they are in original niche width theory). In fact, they may actually benefit from it because participation in more than one environmental state may entail advantageous economies—activities common to participation in both states can be conducted on a larger scale. Scale differences may also arise because some environmental states are blessed with higher resource levels (original niche width theory implicitly assumes a balanced distribution across states), again yielding economies to the larger firms. Moreover, these economies of scale and scope might be so strong that they outweigh any overhead costs or the like, thus, giving the overall advantage to the generalist organization. This seems especially likely when the different environmental states do not alternate across time, as in original niche theory, but instead can be experienced simultaneously. Carroll’s resource-partitioning theory uses insights about economies of scale to make different predictions about niche width based on this second type of generalism. Research in this direction shows that smaller organizations sometimes find ways to avoid the severe pressures of direct scale competition by identifying and exploiting market segments or product-space locations that are too obscure and small to be exploited profitably by very large organizations.

The theoretical imagery of resource partitioning relies on notions of crowding among organizations in a market characterized as a finite set of heterogeneous resources. Organizations initially attempt to find a viable position within this market by targeting their products to various resource segments. Specialist organizations choose narrow homogenous targets, while generalist organizations choose targets composed of heterogeneous segments. It is essential to the theory that environmental resources are distributed in a particular way. It is also essential that some aspect of product delivery in the market possesses a scale advantage; this is typically envisioned as a strong economy of scale in production, marketing, or distribution. Resource-partitioning theory assumes that environmental resources are distributed across multiple dimensions. Each dimension consists of states or a smooth gradient of states, a combination of which are experienced simultaneously by organizations. That is, every firm is located within a particular region of multidimensional environmental space. The theory assumes that environmental resources are unevenly distributed within each dimension, with a unimodal peak. The distribution of resources along each dimension is assumed to be roughly symmetric around that peak. In the joint distribution of all relevant dimensions, a unimodal peak is also assumed; it represents what is called “the market center.” This distribution means that some environmental areas are much more bountiful or lucrative than others, providing potential scale advantages to those located there.
When scale advantages are strong and the resource distribution is unimodal, the center of the market will be populated mainly with generalists. In the competition among these generalists, relative size becomes increasingly important. Competition among generalist organizations consists of an escalating war for resources based on scale, with larger generalists eventually outcompeting smaller ones. When the smaller generalists fail, their target markets become free resources. Generalists occupying adjacent regions hold the best positions for securing these newly available areas, and they typically do so. The surviving generalist thus becomes larger and more general, occupying the market center.

The main device for explaining the rise of specialist firms in resource-partitioning theory involves the resource space that lies outside the generalist target areas. It is here, away from the intense competitive pressure of the dominant large generalists, that specialist organizations can find viable locations. And because resources tend to be thin in these regions, the specialists located here also tend to be small. Small highly specialized locations are also less likely to be invaded by the ever-encroaching generalists than are broader locations; they also tend to be more defensible if they are. When these resources are sufficient to sustain a specialist segment, the market is “partitioned” as it appears that generalist and specialist organizations do not compete; they depend on different parts of the resource base.

The original insight of resource-partitioning theory comes from comparing the amount of resource space available for specialists when overall market concentration rises. Because market concentration derives from generalist consolidation, this comparison can be made by measuring the total area outside generalist targets under different stages of the generalist competition scenario. When the total space does not decline, this area (space outside generalist targets) is larger when concentration is higher (fewer and larger generalists). So, as market concentration rises, the total amount of resource space open to specialist organizations expands. As the resource space open to specialists expands, the founding rates of specialist organizations rise and the mortality rates of specialist organizations fall.

**Structural Inertia**

The key mechanism behind predictions about the likelihood and outcome of organizational change in ecological theory relates to the evolution of structural inertia in organizations, as theorized by Hannan and Freeman in 1984. Inertia is relative, meaning that it constrains organizations from keeping pace with exogenous change. Distinguishing between the content (the properties of the origin and destination states in a transition) and process (the time it takes to transition between the two states) of change is important: The theory of structural inertia is about the impediments endemic in the process of change. Organizational inertia develops as a by-product of structural reproducibility, which emerges in response to demands for the reliability and accountability with which an organization can perform certain actions. Reliability and accountability, in turn, are engendered as the organization gains experience and becomes better at the tasks it performs. In short, and in contrast to many managerial intuitions, inertia is not necessarily a pathology but a by-product of success—a firm cannot do well and gain a selection advantage unless it functions as a reliable and accountable social actor. This notion directly contradicts virtually all contemporary organization theories which make avowedly adaptationist claims. Much prior research on organizational change has aimed to reconcile these conflicting predictions.

Selection and adaptation models of organizational change can be studied in terms of the different consequences brought about by change in the organizational core and periphery. Because reliability and accountability emerge from the reproducibility of core structures, inertial forces (along with the selection advantage derived from reliability and accountability) emanate from core features of organizations. Many studies find that core structural change is a precarious process; it leads to an elevated probability of organizational failure, even if the desired end state is on target. Changes affecting the noncore or periphery structure do not produce the same outcome; they might even lead to a lower risk of mortality.

Hannan and Freeman’s original definition of the organizational core gave a hierarchical list of four core features, including organization’s mission, its authority structure, its technology, and its marketing strategy. Empirical applications of the inertia theory using this definition of organizational core are not unequivocal in their interpretations of core structures, though most do find support for the prediction that core change elevates mortality.
Recent elaboration of the inertia story claims that the deleterious process effects result from the length of time necessary to replace structural and cultural codes governing blueprints for conducting transactions. The time to complete such replacements depends on the location of change within the organization—specifically, on the centrality of units subjected to transformation attempts.

Most studies of inertia resolve the location-of-change issue by applying the core-periphery framework for analyzing structural change in organizations. A typical research design of this sort usually begins by defining what organizational features constitute the core and then formulates predictions about transformations in those features. So the core-ness of any structural element is based on analysts’ assumptions about a specific class of organizations. Partly, the problem pertains to excess generality in conceptualizing the core-periphery distinction: What constitutes a core organizational feature in one organization can be a peripheral structure in another. These discrepancies appear not only with comparisons of organizations with different forms and identities but also to firms within the same population.

**Evolution**

The original density-dependence theory has undergone several important subsequent modifications, two of which are discussed next. First, important modification of the traditional density-dependent specification builds on the idea that legitimation and competition are better represented as time-variant functions of density. That is, the evolution of an organizational population alters the dependence of these two processes on variation in density. For example, as an organizational population matures, the form’s legitimacy may become enforced by the form’s sheer persistence (rather than numbers) in the organizational landscape, as well as by the emergence of tangible networks between members of the population and other social actors, such as regulators, supporting industries, and the like. Similarly, as the population matures, simple diffuse competition for resources may be supplanted by competitive relationships based on dimensions such as status and product scope specialization that lead to the evolution of population structure. To deal with the decreasing dependence of legitimacy and competition on density, in 1997, Hannan proposed a model where the effects of legitimation and competition as driven by density are allowed to decline with population age. The second improvement of original density-dependence theory specifies cognitive and institutional processes as operating at a broader social level than competition, which is tied to material inputs and thus is more localized. In the context of the European automobile industry, Hannan and colleagues demonstrated the advantage of this multi-level specification and estimated legitimation effects as a function of total European density while competitive as a function of the density of each national population. The substantive argument is that ideas and images diffuse across national borders, while resource rivalry unfolds primarily among local competitors.

Original resource-partitioning theory places primary emphasis on an organization’s location in resource space, especially relative to other types of organizations. This logic serves as the primary predictions for the specialist phenomenon. In some industries, however, other factors often take on greater importance than sheer location of products in resource space. Recent studies have proposed three alternative mechanisms to location: (a) customization, (b) anti-mass-production cultural sentiment, and (c) conspicuous status consumption. The first of these features the role of dynamic organizational capabilities, while the second two highlight identity.

Adding to original theorizing regarding structural inertia, a recently developed more intuitive way of conceptualizing core features and change in the organizational core stems from the insight that the adverse impact of transformation arises from its unintended effects. Because the unanticipated consequences of organizational change are a direct function of the extensiveness of the change, core transformation is defined in terms of the additional subsequent unplanned changes that need to be implemented as a result of the initial change attempt. That is, intended change in centrally located units triggers unintended change in units to which they are connected in the overall organizational structure. It is such cascades of change throughout the organization that largely account for the indirect and opportunity costs associated with the transition between two states.

In addition to density-dependence theory, niche width, and resource-partitioning theory, and structural inertia theory, there are several other research streams in organizational ecology that merit serious discussion. Liability of newness and adolescence
theories focus on the mechanisms (e.g., lack of established track record or initial resource endowments) that shape patterns of age dependence in organizational failure rates. Density-delay theory posits that competitive pressures and legitimacy vacuum at the time of founding imprint in nascent organizations' structures and continuously affect their life chances even after competitive and institutional configurations at the time of founding have shifted. The Red-Queen theory of learning and competition views the competitive strength of an organization as a function of both its own competitive history and the competitive profile of its rivals. The size-localized competition model predicts that within populations, organizational size distributions tend to resolve themselves toward a bimodal pattern, with organizations occupying the middle of the size gradient eventually falling out due to crowding pressures from specialized small firms on one end and larger scale competitors on the other. The theory of scale-based competition predicts that among large (generalist) rivals within an organizational population, the greater the aggregate distance of a firm from each of its larger competitors, the higher its mortality hazard. Legitimacy transfer theory argues that the early evolution of a new form may be either aided or retarded by its overlap in identity space with other taken-for-granted organizational forms, depending on the extent of the overlap, leading either to de alio legitimation or violation by comparison.

**Importance**

One feature that sets organizational ecology apart from other research programs is the continuous effort at cumulativeness and integration among ecological studies and theories. Recent efforts at formalizing the original theoretical segments have come a long way in crafting a coherent paradigm with clear directions for future research. The combination of logically formalized predictions, substantive mechanisms explaining these predictions, and the intense empirical scrutiny to which they are subjected makes organizational ecology perhaps the most “scientific” framework in contemporary organization and management theory.

Contrary to an unthinking misconception that organizational ecology is “antimanagerial,” the paradigm’s theories can be a source of sound insights for contemporary managers. For example, understanding the sources of inertia in organizations as endemic to its structure rather than driven by pure incompetence or behavioral mismanagement can help to avoid costly resource commitments. The implications of niche theory for diversification and its relationship to competition suggest that managerial incentives ought to be structured in a way that encourage maintaining a focused firm scope. Resource-partitioning theory may help entrepreneurs identify the market timing and location of new opportunities, and notions of constitutive legitimacy can guard against underestimating the potential cost of a first mover or a monopolist position. Overall, for any practitioner who understands that good ideas can sometimes lead to bad outcomes, organizational ecology has much to offer.

Stanislav Dobrev

See also First-Mover Advantages and Disadvantages; Neo-Institutional Theory; Organizational Demography; Organizational Identity; Organizational Learning; Organizational Structure and Design; Social Movements; Strategies for Change

**Further Readings**


A central insight associated with the theory of organizational effectiveness is that there is no one single theory of effectiveness. Rather, there are multiple models, each of which has a legitimate claim to being the key approach for defining and determining the effectiveness of an organization. This entry is a review of the most important of these frameworks, how they developed, and their application in both research and management practice. An integrative framework of effectiveness models is also reviewed.

**Fundamentals**

The earliest models of organizational effectiveness emphasized “ideal types,” that is, forms of organization that maximized certain attributes. Max Weber’s characterization of bureaucracies is the most obvious and well-known example. This “rational-legal” form of organization was based on rules, equal treatment of all employees, separation of position from person, staffing and promotion based on skills and expertise, specific work standards, and documented work performance. These principles were translated into dimensions of bureaucracy, including formalization of procedures, specialization of work, standardized practices, and centralization of decision making. Early applications of the bureaucratic model to the topic of effectiveness proposed that efficiency was the appropriate measure of performance—that is, avoidance of uncoordinated, wasteful, ambiguous activities. Thus, the more nearly an organization approached the ideal bureaucratic characteristics, the more effective (i.e., efficient) it was. The more specialized, formalized, standardized, and centralized, the better.

Subsequent scholars challenged the assumptions of ideal-type advocates, however, suggesting that the most effective organizations are actually non-bureaucratic. Chester Barnard for example, argued that organizations are cooperative systems at their core. An effective organization, therefore, channels and directs cooperative processes to accomplish productive outcomes, primarily through institutionalized goals and decision-making processes. Barnard’s work led to three additional ideal-type approaches to organization—Philip Selznick’s institutional school, Herbert Simon’s decision-making school, and Roethlisberger and Dickson’s human relations school. Each of these schools of thought represents an ideal to which organizations should aspire—such as shared goals and values, systematic decision processes, collaborative practices, or profitability. Whereas devotees disagreed over what the ideal benchmark must be for judging effectiveness, all agreed that effectiveness should be measured against an ideal standard represented by the criteria.

Mounting frustration over the conflicting claims of ideal-type advocates gave rise, however, to a “contingency model” of organizational effectiveness. This perspective argued that effectiveness is not a function of the extent to which an organization reflects qualities of an ideal profile but, instead, depends on the match between an organization’s attributes and its environmental conditions. The differentiation between organic and mechanistic organizational types represents an early bridge from ideal type to contingency models. Contingency theorists argued that mechanistic organizations (e.g., those reflecting Weber’s bureaucratic dimensions) are best suited to highly stable and relatively simple environments. In contrast, organic organizations (e.g., those reflecting Barnard’s cooperative dimensions) are better suited to rapidly changing, highly complex situations. Complex and changing environments give rise to different appropriate effectiveness criteria than do stable and undemanding environments.

A third shift occurred in the conception of organizations as economists and organizational theorists became interested in accounting for transactions across organizational boundaries and their interactions with multiple constituencies. This emphasis highlighted the relevance of multiple stakeholders in accounting for an organization’s performance. Effective organizations were viewed as those which had accurate information about the demands and


**Organizational Effectiveness**

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Organizational Effectiveness

expectations of strategically critical stakeholders and, as a result, adapted internal organizational activities, goals, and strategies to match those demands and expectations. This viewpoint held that organizations are elastic entities operating in a dynamic force field which pulls the organization’s shape and practices in different directions—that is, molding the organization to the demands of powerful interest groups, including stockholders, unions, regulators, competitors, customers, and so forth. Effectiveness, therefore, is a function of qualities such as learning, adaptability, strategic intent, competitive positioning, and responsiveness.

Models of Organizational Effectiveness

From these various viewpoints about the nature of organizations, their relevant features and dimensions, and their key effectiveness criteria, multiple models of organizational effectiveness naturally arose. Debates about which approach was best, which model was most predictive, and which criteria were most appropriate to measure were typical of the organizational studies literature from the 1970s to the 1990s.

Six models, in particular, became representative of the best known and most widely used in scientific investigations. Michael Jenson, Larry Mohr, Jim Price, and Alan Bluedorn, for example, are among those who argued that the goal model is the most appropriate model of choice—that is, organizations are effective to the extent to which they accomplish their stated goals. In Jenson’s terms, the fundamental indicator of effectiveness is enhancing shareholder value. This single goal dominates all others, and all other considerations are secondary and subservient to this goal. In Mohr’s and Bluedorn’s terms, multiple goals (not just one) exist in organizations, and the reason for organizing at all is because goals cannot be achieved by an individual. Hence, organizational effectiveness is inherently linked to the extent to which both formal and information goals are accomplished.

Stan Seashore and Ephraim Yuchtman, Frank Friedlander and Hal Pickle, and Jeff Pfeffer and Gerry Salancik represent those that argued for a resource dependence model—that is, organizations are effective to the extent to which they acquire needed resources. In order for organizations to maintain viability and to grow, sustaining resources must be captured from the external environment. Effectiveness depends, therefore, on the extent to which organizations manage the environment such that scarce and valued resources are obtained.

David Nadler and Michael Tushman, Tom Mahoney and Bill Weitzel, and David Doty, Bill Glick, and George Huber, are among the advocates of an internal congruence model of effectiveness. That is, organizations are effective to the extent to which their internal functioning is consistent, efficiently organized, and functions with minimal strain. Aligning functional, structural, and strategic elements of an organization produces both short and long-term advantages, predictable outcomes, minimal waste, and hence, organizational effectiveness. Karlene Roberts illustrates an extreme case of internal congruence in describing high reliability, error-free, near-perfectly performing organizations.

Somewhat related is the human relations model championed by a large number of human relations advocates. Among the best known are Rensis Likert, Raymond Miles, and Chris Argyris who argued that organizations are effective to the extent to which they are healthy systems for the individuals who work in them. The emphasis is on engaging members, developing human resources, and providing a collaborative climate. Likert, for example, argued that almost any organization considered to be highly effective would possess “system 4” attributes—focused on supportive relationships, trust, participation, and peer group loyalty. The well-being of organizational members is of central concern.

Terry Connolly, Ed Conlon, and S. J. Deutsch, Ray Zammuto, and Anne Tsui represent scholars who maintained that a multiple constituencies model is most accurate in defining effectiveness. That is, organizations have many groups or constituencies with whom they interact—for example, suppliers, customers, providers of capital, employees, managers, regulators, and so forth. Organizations are effective to the extent to which they satisfy their dominant stakeholders or their strategic constituencies—the constituencies that have the most impact on or power relative to the organization.

Several other less well-known models have appeared periodically as well (e.g., legitimacy models, fault-driven models), but the above are the five most recognized models of organizational effectiveness available during this period of time.
Competing Values Model

A sixth framework, which attempted to integrate these other five models of effectiveness, is the competing values framework or paradox model. This framework was developed empirically after Robert Quinn and John Rohrbaugh submitted a comprehensive list of criteria used in assessments of organizational effectiveness to a multidimensional scaling procedure. These effectiveness criteria clustered together into four groupings, divided by a vertical dimension and a horizontal dimension. These clusters of criteria indicated that some organizations are effective if they demonstrate flexibility, change, and adaptability. Other organizations are effective if they demonstrate stability, order, and control. This vertical dimension is anchored on one end by effectiveness criteria emphasizing predictability, steadiness, and mechanistic processes and on the other end by criteria emphasizing dynamism, adjustment, and organic processes. In addition, some organizations are effective if they maintain efficient internal processes and congruence, whereas others are effective if they maintain competitive external positioning and success in managing outside stakeholders. This horizontal dimension is anchored on one end by criteria emphasizing internal maintenance and on the other end by criteria emphasizing external positioning. The competing or conflicting emphases represented by each end of the two dimensions constitute the rudiments of the competing values framework.

The resulting four quadrants into which the criteria clustered represent opposite or competing models of effectiveness, but they also tend to encompass the previously proposed models. Specifically, the key effectiveness criteria in diagonal quadrants are opposite to one another or paradoxical in their orientation. The upper left quadrant, for example, is consistent with the human relations model—emphasizing cohesion, harmony, collaboration, and coordination criteria. The lower right quadrant, on the other hand, is consistent with both the goal achievement and external constituencies models—emphasizing the management of the external environment, aggressive goal attainment, competitive positioning, and profitability. The upper left quadrant emphasizes human-centered criteria, similar to those advocated by Elton Mayo, Raymond Miles, Rensis Likert, and Chris Argyris, whereas the lower right quadrant emphasizes goal achievement and competitive criteria with an emphasis on dominant stakeholders as advocated by the goal and multiple constituencies models.

Similarly, the upper right quadrant is consistent with the acquisition of new resources (the system resource model), which emphasizes growth, innovation, and change criteria, whereas the lower left quadrant emphasizes the internal congruence, or efficiency model, with an emphasis on error reduction, standardized processes, measurement, and cost control criteria. The upper right quadrant focuses on growth, change, innovation, and new resources, whereas the lower left quadrant emphasizes efficiency, quality control, and high reliability.

These competing or opposite criteria in each quadrant give rise to one of the most important features of the competing values model and, by implication, the literature on organizational effectiveness—the presence and necessity of paradox. A variety of writers, including Kim Cameron, Karl Weick, Tom Peters and Bob Waterman, Kathleen Eisenhart and Bill Wescott, and Marshall Meyer and Vipin Gupta, are among the writers who argued that effectiveness is inherently paradoxical. Effective organizations simultaneously operate in competing quadrants and manifest paradoxical characteristics. Thus, whereas discussions in the academic literature have often focused on which model of effectiveness is most appropriate or most useful, the point of view introduced by the paradox model suggests that all these models have an important role in defining and determining effectiveness. No single model is adequate alone.

Importance

Organizational effectiveness is usually considered to be the ultimate dependent variable in organizational studies. It is the end to which organizations strive. Its definition, however, depends a great deal on the assumptions made and the framework used to determine what an organization exists to accomplish. In pursuing organizational effectiveness, scholars and managers will want to keep in mind the following seven propositions, which summarize the state of the organizational effectiveness literature.

(a) Despite the ambiguity and confusion surrounding it, the construct of organizational effectiveness is central to the organizational sciences and cannot
be ignored in theory and research. (b) Because no conceptualization of an organization is comprehensive, no conceptualization of an effective organization is comprehensive. As the metaphor describing an organization changes, so does the definition or appropriate model of organizational effectiveness. (c) Consensus regarding the best, or sufficient, set of indicators of effectiveness is impossible to obtain. Criteria are based on the values and preferences of different constituencies, and no specifiable construct boundaries exist. Criteria change as dominant constituencies change. (d) Different models of effectiveness are useful for research (and practice) in different circumstances. Their usefulness depends on the purposes and constraints placed on the organizational effectiveness investigation and application. (e) Organizational effectiveness is mainly a problem-driven construct rather than a theory-driven construct. The challenge is to make appropriate choices regarding suitable criteria. (f) In pursuing organizational effectiveness, managers will want to consider the core purpose for which the organization exists, which constituency’s values and preferences take priority, and the contradictory trade-offs inherent in the pursuit of the organization’s preferred outcomes.

Kim Cameron

See also Bureaucratic Theory; Competing Values Framework; Excellence Characteristics; High-Performance Work Systems; Organic and Mechanistic Forms; Organizational Culture and Effectiveness; Resource Dependence Theory; Resource-Based View of the Firm

Further Readings


Organizational Identification

Organizational identification relates to the sense of collective self (a sense of “us-ness”) that individuals derive from their membership in an organization or organizational unit. Organizational identification has been shown to differ from related concepts such as organizational commitment or job involvement, and it has a range of consequences for work-related behavior that are distinct from those associated with individual-level self-definition. The entry begins as an outline of the theoretical basis of organizational identification and then shows how it differs from the related construct of organizational commitment. Next, research findings are summarized that demonstrate the importance of organizational identification for organizational functioning, and finally, factors are discussed that help to create and maintain organizational identification among employees.

Fundamentals

In the late 1970s, Henri Tajfel and John Turner developed social identity theory to help understand intergroup competition and hostility. The starting point for this was so-called minimal group studies in which individuals were randomly assigned to essentially arbitrary categories (e.g., according to their alleged preferences for one or the other of the painters Klee or Kandinsky, respectively) and asked to allocate rewards (points signifying money) to members of their own group and another. In the studies, Tajfel and his colleagues found that individuals
systematically favored members of their own group (i.e., the in-group) over those in the other (the out-group). The key point that Tajfel and Turner drew from these studies was that such behavior was possible only because participants internalized their group membership—as part of their social identity—so that this became a basis for their thoughts, feelings, and actions.

Later, these ideas were refined and extended by Turner and colleagues within self-categorization theory. This argues that all group behavior is mediated by the capacity to define the self in terms of social identity and that this can be differentiated from self-definition in terms of personal identity (one's personality, individual skills, strengths, etc.). The theory argues that all self-definition arises from a process of self-categorization and that whether (and which) social identity becomes salient (so as to determine behavior in any given context) depends on principles of category salience. More specifically, the salience of particular identities is seen to vary as an interactive function of accessibility and fit, such that people are more likely to define themselves in terms of a particular group membership (e.g., as a psychologist, a Canadian, or an employee of Company X) to the extent that they have a prior history of self-definition in these terms, and this self-definition makes sense in the context at hand. For example, a female psychologist is more likely to define herself as a psychologist (rather than as a woman or as an individual) if this group is meaningful to her (e.g., if she is a member of a national psychological association) and if she is at a psychology conference where she is discussing psychology with colleagues.

Blake Ashforth and Fred Mael were the first to apply social identity theorizing to the organizational domain in a systematic way. They emphasized the cognitive, self-definitional aspect of identification with organizations (or organizational subunits, such as teams, departments, etc.) and defined organizational identification as the individual's feeling of oneness with his or her organization. In this way, organizational identification—as a special form of social identification—describes the perceived overlap between the individual and his or her organization's goals, values, and norms and involves experiencing the organization's failures and successes as one's own. Typical measures of organizational identification thus include statements such as “When I talk about this organization, I usually say ‘we’ rather than ‘they,’” or “I identify with other members of this organization.”

Those who perceive themselves as sharing the common organizational identity see themselves as relatively interchangeable members of the same organization (or unit) and, as specified by self-categorization theory, this is a basis for mutual influence and the coordination of behavior with reference to in-group norms (e.g., those that define the group as positively distinct from other groups) as well as collaborative endeavor aimed at advancing the interests of the group as a whole. Indeed, it follows from this theory not only that organizational identity is a central feature of organizational psychology but also that it is this that makes organizational behavior (i.e., the coordinated, collective goal-oriented activity of employees) possible.

The Difference Between Identification and Commitment

It is the self-definitional aspect of identification that distinguishes it from its close relative, organizational commitment. Organizational commitment can be thought of as a positive attitude toward the organization that develops out of consideration of the costs and benefits that organizational membership affords. Dominant conceptualizations of organizational commitment focus on three dimensions: affective commitment, normative commitment, and continuance commitment. Affective commitment sees liking for the organization and its members as the basis for employees' attachment, normative commitment relates to employees' sense that it is appropriate to be committed and hence their sense of obligation, and continuance commitment reflects a desire to remain with the organization primarily in the absence of a better alternative. In studies that have investigated the correlations between these constructs, organizational identification is found to be quite closely associated with affective commitment (but not with normative or continuance commitment). Nevertheless, it is also clear that these constructs tap into distinct states such that each is predictive of rather different things. In particular, while organizational identification is a good predictor of organizational citizenship (e.g., an individual employee's willingness to do more than asked of them), this is less true of all forms of commitment. This indeed is what self-categorization theory would predict: since identification (and the behavior it
leads to) reflects a sense that the organization and its members are part of self, whereas this is not necessarily the case for commitment.

**Antecedents of Organizational Identification**

All employees are members of organizations. But why do they identify with some organizational units rather than others? And why do some of them identify strongly and others only loosely or not at all? One important antecedent for strong employee organizational identification is a strong and distinctive organizational identity—that is, a clear understanding of the organization’s characteristics that are enduring and which distinguish it from its competitors. Among other things, this is predicted by social identity theory’s assertion that individuals can enhance their self-esteem by seeing their in-groups (in this case their own organization) as different from and better than other comparison out-groups (other organizations). Providing they are credible, the more organizations satisfy this by presenting positive external and internal images, the more employees will tend to identify with them.

**Importance**

Numerous studies and meta-analyses have found that organizational identification relates to a range of positive job-related attitudes and behaviors, such as job satisfaction and employees’ intention to remain with their organizations. As we have noted, the stronger their organizational identification, the more likely employees are to work collaboratively to live up to their group’s norms and achieve its goals. Typically, in organizations, the norm is to be productive and effective. Accordingly, a number of studies have shown positive associations between identification and employees’ motivation to perform well and to “go the extra mile.” For example, in research and development departments (where the norm is to be innovative), identification has to be found to relate positively to employee creativity, and in service settings (where there is a norm to be friendly toward customers), identification has been found to encourage higher employee customer orientation. There is also evidence for a positive effect of identification on bottom-line parameters such as financial turnover and customer satisfaction. Finally, strong identification can activate group members’ social support for each other which, partly because it helps them cope with stress, engenders greater satisfaction and enhanced well-being. At the same time, a sense of shared identity tends to ensure that communication between organizational members is trusted and taken at face value rather than being met with skepticism or paranoia.

Despite these generally positive effects for individual and organization, a few caveats should also be outlined. First, as highly identified employees consider the organization’s successes and failures their own, these employees suffer more than others when the organization is not doing well (e.g., as in times of economic downturn). Second, highly identified employees may provide support to other strongly identified colleagues, but if other members of the organization are seen as not fitting into the group, these members may become targets for bullying or harassment by those colleagues. Third, strong identification may hinder organizational change if that change is seen as threatening for the organizational identity in question. Accordingly, if they are to win those employees over, change leaders have to work to ensure that strongly identified employees retain a sense of identity continuity throughout the change process. For a range of reasons, this may not always be possible, and this is one case where the majority of attempts to produce organizational change actually fail.

So what can managers do to promote a sense of shared identity among employees? In particular, how is this possible given the strong subgroupings in organizations that are often associated with the siloing effect, or lack of motivation and communication in organizations? First, managers can foster short-term identity relatively easily by, for instance, encouraging comparisons with a competitor. Other activities (e.g., corporate newsletters) that highlight successes of the organization can promote employee identification. Again, though, these activities have to be legitimate and credible, otherwise they can easily backfire. At the level of different subunits, team-building or other related training programs can also foster a sense of unity and stimulate identification. These measures will all have positive effects on situated identity and may help employees to overcome short-term problems. Alongside these short-term strategies, though, it is important to focus on the underpinnings of long-term identification. Managers should see identity-creation not as a one-off activity but as a continuous process that
demands continuous attention. In this regard too, the creation of shared identity is not a silver bullet, or an organizational cure-all, that is unrelated to what managers do and the example they set through their own actions. Most particularly, managers have to be fair and respectful of group members, their actions have to be authentic, and they have to act as models for the form of identity that they want to cultivate. Managers who represent their organizations well and who serve as prototypes for relevant organizational identities are more likely to be supported by their employees and will also tend to have greater leeway when it comes to challenging established practice and taking the group in new directions.

Since the 1970s, social identity theory has provided an important framework for understanding intergroup phenomena and to improving intergroup relations. However, over the past two decades, the strong theoretical framework that it and self-categorization theory provide has also become increasingly influential in the area of management. Here, a substantial and growing body of research provides managers with a better understanding of the dynamics of human resource management and tools with which this can be enhanced. In the last few years, these ideas have also started to take hold in the field of economics. There, it has been suggested that the creation of shared identity offers a much more viable pathway to organizational success than the traditional managerial control and monitoring approach, and, that the social identity approach might also be a much more useful framework for understanding and improving employer-employee relations.

Rolf van Dick and Alex Haslam

See also Organizational Commitment Theory; Organizational Identity; Organizationally Based Self-Esteem; Self-Concept and the Theory of Self; Social Identity Theory

Further Readings


**Organizational Identity**

The term *organizational identity* was originally proposed by Stewart Albert and David Whetten to mean the elements of an organization that are widely believed to be (a) central, (b) enduring, and (c) distinctive. Since its introduction in 1985, various interpretations of this definition and the relative weighting of each element—especially “enduring”—have taken root. Diversity of thought and breadth of application have become hallmarks of this literature. Moreover, the concept has been applied at multiple levels of analysis—spanning populations, organizations, and individuals. This entry outlines the history of organizational identity, followed by examples of how it has been applied within organizational studies.
Organizational identity builds on decades of scholarship devoted to the study of individual identity in psychology, sociology, and philosophy, broadly characterized as each individual’s answer to the existential question, Who am I? It is often equated with a person’s self-concept, self-definition, or self-view, and thus the basis for “self-directed behavior.” A person’s identity is said to be encoded as a distinctive pattern of similarities and differences, encompassing both social comparisons (self-other) and temporal comparisons (self-self). Salient components of an individual’s identity might include family name, personality traits, gender, acquired skills, roles, or social status. These self-identifiers specify to whom an individual is similar and how the individual is different from those similar others. Similarity and difference can thus be thought of as dimensions of the identity concept. The posited need for “optimal distinctiveness” set forth in this literature highlights an inherent tension between these dimensions.

Conceptualizing organizational properties as analogous to individual properties is a controversial practice within organizational studies. Among scholars studying organizational identity, this controversy is reflected in how they interpret the “we” in the so-called organizational identity question, Who are we? On one hand, scholars adopting a “social constructionist” view of organizations associate this plural pronoun with the current organizational membership. On the other hand, their colleagues who view organizations as “social actors” interpret it to mean the organization itself, as a social entity. While recent efforts to formulate complementary, even integrated, conceptions of organizational identity are encouraging, it is useful for readers of this literature to be aware of these two distinct applications of the concept.

Organizational identity scholars who employ the social constructionist approach emphasize the “believed to be” portion of Albert and Whetten’s organizational identity definition referenced earlier. Consistent with a psychological orientation, proponents argue that inasmuch as individuals alone are capable of self-reflection and self-governance, organizations are best viewed as collections of individual actors gathered together to accomplish shared objectives. This view of organizational identity treats members’ shared answers to the Who are we? question as the product of collective “sensemaking”—that is, a shared representation satisfying a shared need to make sense of shared experiences. This bottom-up conception of organizational identity is similar to what psychologists refer to as collective identity (e.g., the identity of a demographic social category).

Understanding how shared representations of organizational identity emerge within organizations and how they are subsequently sustained and inevitably changed, are key topics addressed within this body of organizational identity scholarship. The focus here is on understanding an organization from the perspective of its members, including members’ interpretations of what’s central, distinctive, and enduring about their organization. Scholars adopting this perspective have examined how changing environmental circumstances necessitate changes in an organization’s identity, including the meanings associated with a particular identity (e.g., high quality). They also consider how an organization’s strategic response to shifting external expectations might be driven by organizational leaders envisioning and encouraging new conceptualizations of the organization. Recalling the two dimensions of identity, this branch of organizational identity scholarship has mostly focused on the “difference” dimension (e.g., the unique elements of an organization’s culture).

On the other hand, the social actor perspective on organizational identity emphasizes the actor-like social role of organizations as functionally analogous to that of individuals. This more sociological view is based on the supposition that among the myriad types of social entities within modern society, only “corporate” organizations (exemplified by, but not limited to, business corporations) are granted roughly the same rights and responsibilities as individuals. According to this perspective, compared with other collectives (e.g., affinity groups, communities, social movements), organizations-as-social-actors are expected to behave as if they were individual social actors. Hence, it is posited that a shared understanding among members about who we are, as a particular organization at any point in time is a prerequisite for coherent internal collective action and sustainable external social exchange.

Scholars within this perspective point out that the attributes comprising an organization’s identity are adopted from culture-specific “menus” of self-defining social categories, ranging from widely
shared population-level differences to individuating organizational differences. For example, an organization’s identifying features (identity “claims”) might include its industry, product category, type of ownership, competencies, and values. These features are expressed formally as credos, policies, and procedures and informally as taken-for-granted practices and other elements of the organization’s culture. This “top-down” view of organizing focuses on the “sensegiving” properties of an organization’s identity, delineating the zone of appropriate behavior for members when they represent an organization as its agents, in word or deed. Scholarship adopting this view of organizational identity is likely to focus on widely shared organizational identifiers (e.g., type of organization, such as agricultural co-op, hospital, community college, bank) and the use of an organization’s identity to inform consequential organizational activities, including strategic decisions (e.g., acquisition, merger) that might be perceived as inconsistent with the organization’s historical identity.

These two perspectives generally espouse different interpretations of Albert and Whetten’s tripartite definition of organizational identity, especially the enduring aspect. Social constructionists view the elements of an organization’s identity as quite malleable, given that they are the products of members’ emergent beliefs about shared experiences. In contrast, inasmuch as scholars adopting the social actor perspective treat an organization’s identifying features as keys to predictable, sustainable inter- and intraorganizational activity, they focus on enduring organizational attributes that predate and transcend (thus shaping and guiding) the experience of current members.

Importance

One of the reasons why identity has found a welcome home in organizational studies is its potential for application across different levels of analysis. At the supraorganizational (sometimes referred to as the institutional) level, an organization’s identity is typically equated with the membership requirements associated with particular groups or social categories (e.g., commercial banks, community colleges, zoos). Scholars interested in this level of analysis are interested in how a shared understanding of these requirements allows various audiences (e.g., customers, regulators, employees) to recognize different kinds of organizations, interact appropriately with them, and apply suitable evaluation criteria.

It is worth noting, especially at this level of analysis, that the similarity-difference “dimensions” of organizational identity span the central questions posed by organizational sociologists and organizational economists. An organizational sociology perspective focuses on between-group (e.g., population, social category) differences, arguing that the need for social legitimacy pressures organizations claiming a particular group membership to behave like the prototypical group members (i.e., appear and act like similar others; see also Institutional Theory, this volume). On the other hand, an organizational economics perspective focuses on within-group differentiation, proposing that the need for competition pressures otherwise similar organizations to emulate the ideal, if only mythical, group member (e.g., trustworthy, employee-friendly). The effectiveness of these efforts is reflected in the strength of an organization’s reputation. Organizational identity (who we are) is thus sometimes portrayed as the base of a conceptual triangle, connecting organizational legitimacy (we’re the same as [and thus as good as]—) and organizational reputation (we’re better than—).

Utilizing a narrower field of vision, the majority of organizational-identity empirical research has focused on the organizational level of analysis. To date, this genre has produced numerous in-depth, qualitative case studies. These studies typically examine the origins of an organization’s identity, subsequent changes in that identity, and/or how a particular identity has influenced other organizational features and activities. Those interested in identity origins have explored both the internal and external “roots” of a particular organization’s identity, as well as the actual identity-formation process. Studies of identity change have examined the impact of shifting environmental conditions, often focusing on how leaders used a crisis to imprint the organization with their values. Scholars focusing on identity consequences have examined how an existing organizational identity is utilized to guide organizational responses to competitive challenges, including the formulation of new strategic plans.

Narrowing the focus of organizational identity scholarship even further, the concept of identity is increasingly invoked by scholars studying individuals within organizations. A few studies have
examined how the identity of a single member can impact an organization’s identity, as exemplified by the legacy of influential organizational founders. To shift perspectives, a related concept, organizational identification, is defined as the perceived congruence between an individual member’s personal identity and the organization’s identity. A high level of identification with an organization suggests that a member has internalized key elements of the organization’s identity (who we are → who I am). As one might expect, high levels of organizational identification have been shown to predict organizational satisfaction and organizational commitment. It has also been shown that prospective members gravitate to organizations whose core values (identities) are consistent with their own.

It is worth noting that a sizable number of studies, spanning the institutional, organizational, and individual levels of analysis, have focused on the distinctive characteristics of “hybrid” identity organizations. These are organizations that deliberately chose to operate according to the requirements associated with seemingly incompatible social categories (organizing logics or scripts)—such as family businesses, professional orchestras, and church-affiliated universities. Said differently, a distinguishing, central, and enduring feature of organizational identity hybrids is that they are both an X- and a Y-type organization. The obvious challenge facing hybrids is that rather than a shared understanding of who we are as an organization being the final arbiter of internal conflicts over strategic direction, any major decision that seemingly requires leaders to choose between the incompatible components of the organization’s identity risks provoking a civil war.

This brief overview of organizational identity suggests several “orienting questions” for readers seeking to gain a more-than-casual understanding of the organizational identity literature.

1. Which broader, paradigmatic approach to organizational scholarship is being adopted (social constructionist, social actor)?
2. Which level of analysis is addressed (institutional, organizational, individual)?
3. What is being compared (different views of an organization’s identity, the identities of multiple organizations)?
4. Is organizational identity distinguished from related concepts (image, reputation, legitimacy)?
5. Whose perspective is being examined (internal and/or external points of view)?

Readers seeking practical implications for management practice will be especially interested in several of the following related topics. A growing literature on corporate identity, including corporate branding strategy, extends the concept of brand identity in marketing to the organizational level of analysis. The notion of a sustainable organizational story, from the field of organizational communications, is also relevant. Closer to home, some organizational studies researchers have examined ways in which organizations project a “positive image.” And possibly of greatest relevance, the literature on organizational culture—a concept that is often confused with organizational identity—is brimming with practical implications.

David A. Whetten

See also Core Competence; Institutional Theory of Multinational Corporations; Organizational Culture and Effectiveness; Organizational Identification; Organizationally Based Self-Esteem; Self-Concept and the Theory of Self; Social Construction Theory; Social Identity Theory; Typology of Organizational Culture

Further Readings
Hatch, M. J., & Schultz, M. (2000). Scaling the Tower of Babel: Relational differences between identity, image, and culture in organizations. In M. Schultz, M. J. Hatch, & M. H. Larsen (Eds.), The expressive
ORGANIZATIONAL LEARNING

The idea of organizational learning can be traced to a seminal book titled *A Behavioral Theory of the Firm*, published in 1963. In contrast to rational conceptions of organizations as entities solving maximization problems, this behavioral view depicts organizational learning as a function of experience and an organization’s success and failure in meeting performance targets. In the decades since, the topic of organizational learning has generated volumes of subsequent work, spanning disciplines, levels of analysis, and theoretical perspectives. It is not possible to review the entire field in this entry. Instead, the entry focuses on theoretical models of organizational learning which have built on the original behavioral theory of the firm.

**Fundamentals**

As James G. March points out in his 2007 reflective essay on the behavioral theory of the firm,

> [T]he idea that organizations adapt over time to local search and feedback on the relation between performance and aspiration was a welcome one for many, but the implications for traveling on a rugged domain, for superstitious learning, for competency traps, and for risk avoidance were not equally compelling to all. (p. 540)

Subsequent work has elaborated on several implications of the behavioral theory of the firm, which will be discussed here: (a) implications for risk taking, (b) implications for traveling on a rugged domain, (c) implications for organizations as interpersonal networks, and (d) implications for organizational learning curves.

First, a set of models have elaborated on the original idea by studying the impact of experiential learning on organizational risk taking. One stream argues that risk-taking tendencies are not constant or fixed but are responsive to changing fortune creating psychological responses to danger, slack, aspirations, and perception as well as self-confidence. In the aspiration reference point model, risk is seen as a function of the ratio of aspiration to the wealth level of the organizations. Risk preference is thus positively related to the aspiration level and negatively related to wealth levels. Given this simple assumption, the model shows that those who accumulate losses become risk prone whereas those who accumulate gains become risk averse.

Aspiration can also be socially determined by other firms in the same population. The dual reference point model further refines the aspiration point model, by introducing risk taking as a function of survival in addition to aspirations. Both models produce behaviors that approximate observed empirical regularities. A second stream of work argues that risk taking and the selection among alternatives are not a calculated, consequential process but are a response learned from experience. Individuals learn how to respond to situations involving risks the same way they learn other things, by experiencing the apparent consequences of their behavior and modifying their rules of behavior as a result of cumulated experience. The main finding is that learning in the domain of gains (where expected returns of alternatives are positive) leads to behavior that is decidedly more risk averse than does learning in the domain of losses. Thus, risk preferences are interpreted as a learned response, rather than as an inexplicable personal trait. In addition, such learning involves a process of sequential sampling. Because humans learn from experience by reducing the probability of sampling alternatives with poor past outcomes, the reproduction of successful actions inherent in adaptive processes results in a bias against alternatives that initially may appear to be worse than they
actually are. Adaptive search, rather than fixed or variable risk preferences, may explain the empirical association between performance and organizational risk taking. These models of learning from experience and selected samples provide alternative theories of risk aversion and risk taking.

Second, organizations learn by responding to local feedback, which may or may not be indicative of true consequences. This complication is especially severe when choices are interdependent both cross-sectionally and intertemporally. First, when choices influence each other, the resulting payoff surface is characterized by many local peaks rather than a single peak (in the case of no or little interaction among choices). The presence of a local peak means that incremental changes from it are unlikely to lead to performance increases as the corresponding solution to the peak has higher associated payoffs than its immediate neighbors. As such, organizations following local feedback may be guided toward a local peak and get stuck there if no radical adaptations are made. A series of models has elaborated on the consequences of varying interdependency on a variety of outcomes ranging from imitation to competition to organizational structure. Second, organizations also face choices that are dependent intertemporally. Local feedback may be biased, ambiguous, or simply not available because a sequence of decisions needs to be made before the outcome is revealed. For instance, many organizational decisions are sequentially interdependent: Upstream decisions need to be made well before downstream consequences are clear. This absence of immediate outcome feedback is also known as the credit assignment problem in artificial intelligence. It implies that learning based solely on reinforcement or local feedback (also known as hill-climbing) would not prove effective. Instead, organizations need to develop cognitive models of the environment by bootstrapping from their repeated experience.

Third, while there is a long tradition in organizational learning that uses individual models of learning to understand collective organizational activities, there has been more focus on the idea that organizations learn in the context of many individuals. Rather than modeling organizations as unitary actors, this emergent stream of work explicitly models how organizations learn as individual members interact with each other, combining and recombining their fragmentary knowledge into coherent routines and patterns of behavior. In particular, recent work models interpersonal learning as a network process, building on March’s model of exploration and exploitation. Although March models learning between an organizational code and many noninteracting individual members, this stream of work has begun to introduce direct interpersonal learning among members. Individuals look to those with whom they have a connection in the interpersonal networks of the organization. Organizations are represented by a variety of interpersonal networks ranging from a two-dimensional cellular automata to small world networks. Thus, structural network characteristics of the interpersonal networks influence the learning outcomes. For instance, interpersonal networks that have a moderate degree of cross-group links tend to produce highest performance. The explanation is that too many cross-group links quickly drive out deviant ideas and eliminate requisite variety, while too few links prevent good ideas from being efficiently conveyed across the entire organization. Thus, the amount of cross-group links serves as a lever to fine-tune the productive balance between exploration and exploitation. In this sense, incorporating an interpersonal networks model does not change the fundamental insights from the March model. This body of work also contributes to the literature on organizational learning. By systematically exploring the locus of interpersonal learning at dyadic and network levels, this stream of work enriches researchers understanding of learning as it unfolds in interpersonal networks of the organizations. What distinguishes this work from models in economics and physics is a common focus on outcomes of interest to organizational scholars: performance, innovation, and learning in addition to diffusion.

Lastly, a set of models has tried to theoretically explain robust empirical observations pertaining to the learning curves. These empirical regularities are that (a) organizational performance improves with experience at a decreasing rate across a variety of settings, (b) rates of learning vary, and (c) organizations typically suffer from negative transfer of learning as they adapt to a new environment. Several streams of learning models have tried to provide a theoretical underpinning for organizational learning curves. One stream has modeled learning as a trial-and-error search process of all possible configurations and
Organizational Learning

combinations of the activities. A second stream of work estimates parameters associated with the models directly from production data. However, the first two streams are often criticized as being unable to account for all three regularities, and it is often not clear whether the specific mechanisms in the models correspond to the actual processes by which learning occurs in organizations. A more recent stream of work models organizational learning curves as a result of the formation of novel interaction routines. This line of work explicitly models the emergence of connections or relationships among component activities. This differs from the first stream which views the entire configuration of activities as the unit of analysis. It views organizational learning as resulting from the formation of routines that connect individual actions into patterned behavior. Modeling organizational learning as routine formation seems to produce the best fit with empirical observations.

Importance

Future extensions of these existing ideas may follow two directions. First, more studies should explore organizational learning as the explicit outcome of interacting individuals. There are two challenges involved in modeling organizational learning as learning individuals interacting with one another. First, we need a good understanding of how individuals learn. Second, we would need to specify detailed mechanisms of aggregation. For instance, a majority voting rule may be needed to aggregate individual preferences into a coherent set of organizational preferences. Ideal, both need to take place before the field has can have a well-grounded theory of organizational learning. If individual behavior is not well understood, then aggregation yields little additional insight as the microfoundations may be shaky. One way to potentially overcome such dual difficulties is to empirically validate existing models of learning based on individuals, and use them as building blocks to provide a solid baseline model.

Introducing models that incorporate more realistic organizational features (such as aggregation rules) opens an old debate between the simplicity of models and the realism they entail. While clean, simple models make intuitions transparent and easy to follow, they are often seen as inadequate guides for actions because of the limited range of factors considered. Thus, a second potentially fruitful future extension is the empirical testing of the ideas generated by the existing models to explore their external validity and to increase their empirical relevance. For instance, models of risk taking have attracted a sizable following among empirical researchers who are motivated to verify organizational risk-taking tendencies in a variety of empirical contexts ranging from shipbuilding to investment banks. The resulting evidence, while perhaps not conclusive enough to prompt a revision of the theoretical models, certainly represents an important dialogue between models and data. At the very least, it provides a useful reminder that the test of models eventually has to be their ability to produce and explain real-world behavior. In contrast, the body of work surrounding the rugged terrains, due to its recency, has remained mostly theoretical. With the availability of novel sources of data (e.g., patents, online communities), large-scale empirical testing may be more feasible and may readily yield further insights.

In a nutshell, theoretical models of organizational learning have been an area of active and fruitful research within the A Behavioral Theory of the Firm tradition. In the past decades, our understanding of how organizations learn has been greatly enriched by formal work in this area. Future work will continue to explore, refine, and validate these ideas both theoretically and empirically.

To conclude, the central management implication is that modern managers need to first recognize the many complications brought by the experiential nature of organizational learning. First, managers may obtain a more systematic understanding of their risk-taking behavior by exploring underlying determinants, such as the performance aspiration discrepancy. Second, as modern decisions often involve many interdependent parts, managers need to caution against prematurely converging upon an inferior set of solutions. The idea that learning is experiential also implies that the way an organization is structured also may impact the knowledge flow and subsequently learning and performance outcomes within a firm. In structuring the interpersonal networks of a firm, managers need to consciously balance two dual objectives: information diffusion and the preservation of heterogeneous ideas. Lastly, managers may improve learning within their firms by paying attention to key variables underlying the organizational learning curves.

Christina Fang
Organizational Socialization

Organizational socialization refers primarily to the process by which an organization integrates new members, but it can also include a focus on influencing existing members. Key elements of this process include a demonstration of the organization’s principal values and expectations, an introduction to role-specific technical details, and insights into the political landscape within the organization, which are often conveyed informally by current organizational members, or “insiders.” More than anything else, however, socialization represents a transformation whereby an individual learns critical information about the organization that she has joined and either modifies her relevant behaviors and attitudes accordingly in order to attain congruence with the expectations of organizational colleagues or, finding herself ultimately incompatible with the organization, elects to depart—albeit sometimes after a protracted period of dissatisfaction. While socialization is most acutely felt—and therefore most commonly considered—at the time that an individual joins an organization, socialization also occurs on an ongoing basis during her tenure and is made more salient when she is promoted, transfers to a different work group, or when her organization merges with another organization. This entry discusses the two primary approaches to socialization, antecedents of successful socialization, and the outcomes of effective socialization for both employees and organizations.

Fundamentals

An organizational member is considered socialized when he has attained a sustainable equilibrium between his own goals and beliefs and those of his organization. “Successful” socialization, in and of itself, is not always positive, however. Instead, socialization simply reflects the degree to which an individual has attained congruence with an organization or organizational work group. Consider an early investigation of socialization that focused on an urban police department. Research indicated that newly minted officers started out their careers with high levels of motivation. Their motivation rapidly declined, however, as they were socialized into a culture that emphasized “not rocking the boat.” Thus, officers that were rapidly and successfully socialized became demotivated and prone to a routinized, uninspired, and by-the-book approach to their daily responsibilities.

Approaches to Socialization

Organizations employ drastically different approaches to socialization, depending on their goals, operating environment, and the ideal end state for organizational members. For example, the U.S. Army expects its soldiers to exhibit discipline, teamwork, and physical excellence. Thus, military socialization—commonly known as “boot
Organizational Socialization

Organizational Socialization—requires individuals to follow orders, dress identically, and exercise rigorously. At the other end of the spectrum, one can envision the archetypical Silicon Valley start-up firm, in which individuals routinely question the decisions of their superiors, dress casually, and work for numerous hours in front of a computer screen.

These two archetypical organizations would be well advised to approach the socialization of new members differently, in accordance with their divergent goals, operating environments, and organizational cultures. A military organization is more likely to employ “institutionalized” socialization tactics, whereas a start-up firm is more likely to employ “individualized” socialization tactics. Under the former, new entrants undergo formal and standardized socialization processes as a group, often at remove from current organizational insiders. New entrants are made aware of the progression they will undergo, its timetable and fixed end point, and the critical checkpoints along the way. Such institutionalized socialization processes tend to be favored by new entrants over the alternative, due to their comprehensible structure and corresponding uncertainty-reducing properties. When organizations use individualized socialization, by contrast, individuals are treated distinctly (instead of as part of a collective), often following different schedules and interacting with current organizational insiders along the way. It is worth noting that effectively distinguishing between individualized socialization programs and the absence of a socialization program has been a challenge to academic researchers, as individualized socialization can often resemble no socialization at all due to an inherent lack of formality or standardization.

Not surprisingly, these two approaches to socialization are associated with radically different outcomes. Individuals who undergo institutionalized socialization tend to exhibit higher organizational commitment, job satisfaction, task mastery, intention to remain with the organization, and less overall anxiety about their place in the organization. However, some studies have found that institutionalized socialization tactics are negatively associated with performance as compared with individualized tactics, particularly concerning innovation. This could be due to the fact that institutionalized socialization provides a cognitive framework for what is expected, allowing a person to become comfortable in their role so long as they stay within that framework. Such a situation may ultimately prove constraining for individuals and organizations, especially in terms of innovation. In contrast, by “throwing” individuals into their new roles with little in the way of coaching or guidance, individualized socialization may produce employees who are better able to think creatively, challenge the status quo, and otherwise perform innovatively. Significant risks attend this approach, however, as employees may be less certain for a longer time about how to conduct themselves in the organization, which could ultimately hamper mastery of their job.

The Role of Insiders

It is important to note that institutionalized socialization, despite its more formalized nature, need not refer solely to officially sanctioned presentations, exhaustive details pertaining to human resources (HR) policies, and reminders about the organization’s particular code of ethics. In fact, one could argue that such “pure play” training programs hardly represent effective socialization at all. Instead, some of the most critical socialization occurs between newcomers and proximal insiders or those more senior colleagues with whom they will be working closely. Continuing with the example of a military organization, a new recruit is likely to learn far more about what is actually expected of him from veteran comrades than from a training manual.

Such insiders can provide new entrants with relevant advice, social and moral support, access to intraorganizational networks, and regular feedback on their performance and potential. Their participation in socialization processes represents a significant tradeoff for organizations, however. While new entrants tend to learn the most relevant information for effective socialization from proximal insiders, ceding aspects of the socialization process to them may necessitate abdicating control over the messages which are being relayed to new entrants, thus, potentially enabling the transmission of unsanctioned or even erroneous information. On the other hand, research has shown a more nuanced benefit of this approach: Assigning insiders the task of socializing newcomers actually enhances insiders’ own organizational commitment.
Organizational Socialization

Selection as “Anticipatory Socialization”

What types of people are more likely to be successfully socialized? One notable dispositional predictor of successful socialization is proactivity. Proactive newcomers will make an effort to find out—often through informal discussions with coworkers—what kind of behavior and beliefs are expected of them and will subsequently make an effort to fit in. A second important consideration is an individual’s self-efficacy, or the degree to which new organizational members view themselves as capable of performing well in certain settings; highly self-efficacious individuals tend to demonstrate a greater propensity for successful socialization. Finally, a person’s tendency to regularly seek feedback has been shown to predict socialization success, because seeking feedback leads them to recalibrate their perceived performance and standing within the organization as they attain new information.

In addition to such dispositional attributes, organizations can increase their chances of successfully socializing newcomers by focusing on person-organization fit, or the degree to which new organizational members view themselves as capable of performing well in certain settings; highly self-efficacious individuals tend to demonstrate a greater propensity for successful socialization. Finally, a person’s tendency to regularly seek feedback has been shown to predict socialization success, because seeking feedback leads them to recalibrate their perceived performance and standing within the organization as they attain new information.

Organizational Benefits

Organizations can benefit substantially from a swift and successful socialization process, for a variety of reasons. First, the faster an individual is socialized, in terms of learning to work effectively in an organization and conduct that work according to the organization’s true strategic priorities, the faster they will be able to contribute to accomplishing their organization’s goals. Second, the experiences that a new organizational entrant processes during the earliest days of their tenure have a stronger and more enduring influence than experiences which are processed later on. This is due to the fact that in such a situation, new members face the maximum amount of ambiguity about their standing, and many respond to this condition by rigorously internalizing every bit of information that they come across about their organization’s norms and their own role within it. Additionally, because people are most open to influence when they are new to an organization, socializing members at later stages is typically less effective and may require far greater expenditures of time and resources to successfully influence their attitudes and behaviors. Third, socialization processes are an integral part of ensuring the continuity of organizational culture. Corporate cultures are sustained, even in the face of regular employee departures and critical changes, such as restructuring, mergers, and growth, by imparting to new hires the standards, norms, and lore that characterize an organization. Failing to socialize newcomers can result in a variety of adverse organizational outcomes. The most extreme example is turnover, which is usually costly for an organization and can ultimately become disruptive and adversely affect morale if it is extensive enough. Socialization failures can, however, also negatively influence employees who elect to remain. In the absence of successful socialization, organizational members are likely to exhibit lower levels of organizational commitment, job satisfaction, clarity about their role, and intention to remain. It may be simplistic to state that a happy worker is a
productive worker, but it is certainly true that organizational members are less likely to perform well when they are unclear about relevant expectations and displeased with the manner in which they have been treated, particularly in the early stages of their organizational tenure.

**Individual Benefits**

Socialization can also be highly beneficial for individuals. Consider the ambiguous environment which confronts a new organizational entrant. There is a new role to learn, new colleagues to become acquainted with, a new organizational culture to assess and adhere to, and ultimately, a fundamental and overriding question to grapple with: Will I be successful at this new job? In other words, new organizational members can easily become overwhelmed by the uncertainty that they face. As decades of psychological research amply demonstrate, uncertainty is an unpleasant cognitive state for individuals, who will almost universally seek to reduce it as quickly and completely as possible. Therefore, individuals have a natural incentive to make their environment more predictable and understandable, and they look to both formal and informal socialization processes as a means to accomplish this end. In addition to uncertainty reduction, however, individuals benefit from successful socialization as it often offers them a window into the political landscape of their organization—the understanding of which has been shown to effectively predict future professional success within the organization, as well as a gratifying sense of person-organization fit.

Overall, individuals derive a substantial component of their identity from their professional affiliations and accomplishments. Organizations that recognize this—and that have a clear understanding of their own culture, operating environment, and corresponding socialization techniques—are capable of responsibly leveraging their members’ innate desire for acceptance to better achieve strategic organizational ends. Leaders would therefore do well to be cognizant of the power and potency of socialization processes within their own organizations and beyond.

_Eliot L. Sherman and Jennifer A. Chatman_

**Further Readings**


**Organizational Structure and Design**

Organizational structure and design is a major part of management theory. Organizational structure refers both to the official, formal relationships between organizational members and to the informal relationships between them that arise more spontaneously. Some typical examples of formal structure are hierarchy, rules, and the organizational chart. Some examples of informal organizational structure are
members choosing to take their lunch break in each other's company or acting corruptly. Organizational design is the conscious molding of the organizational structure so that it attains ends that are valued, such as efficiency or profit. The main contemporary theory of organizational structure and design is contingency theory. It says that for a structure to produce a beneficial outcome, such as high organizational performance, it must fit certain factors, called contingencies. Some major contingencies are strategy, size, and innovation. Contingency theory is widely used as the main framework about organizational design in business schools and in textbooks on organizational design. In any organization, its managers are faced by needing to organize the members so that their collaborative efforts will attain the goals of the organization, be they sales growth, profit, quality products, quality services, safety, or whatever. This in turn raises questions such as how work is to be specialized and distributed among members, whether work is to be governed by rules or direct personal supervision, and so on. Because organizational design provides guidance on how to structure any organization, it is a valuable part of the manager's toolbox. However, it is not the case that one single design is right for all organizations. The right structure varies across organizations, and the correct design for an organization must fit its circumstances, which is to say, its contingencies. The following sections describe the main structures and the main contingencies, followed by the structures that fit the contingency variables. The entry then outlines the evolution of structural contingency theory before closing with a discussion of its importance.

Fundamentals

Core Dimensions of Organizational Structure

Every organizational structure comprises several core dimensions:

**Differentiation.** Differentiation refers to how far an organization is broken into numerous pieces and how much these pieces differ from each other. An organization may be differentiated horizontally and/or vertically. Horizontal differentiation includes the number of divisions, departments, sections, and job specialities. Two departments might differ in whether they have few rules (e.g., research) or many (e.g., production). Vertical differentiation includes the number of levels in the hierarchy of the organization. The head office may differ from an operational department in the degree of conformity to rules.

**Integration.** Integration refers to how well the farthest parts of an organization are coordinated with each other. Some organizations such as a business unit need to have high integration, because their parts depend upon each other (e.g., sales sells what production makes), whereas other organizations such as a diversified corporation need only low integration, because any one of its divisions operates separately from the other divisions. Integration is provided by integrating individuals (e.g., project managers), hierarchy, planning, and rules.

**Centralization.** Centralization refers to how far up the organizational hierarchy a decision is made. In a centralized structure, many decisions are made by upper level managers, whereas in a decentralized structure many decisions are made by middle or junior managers.

**Formalization.** Formalization refers to the extent to which the activity in the organization is governed by rules and standard procedures, often existing in writing.

Contingency Factors Driving Organizational Structure

Every organization needs to fit the core dimensions of organizational structure to five contingency factors of uncertainty, innovation, interdependence, strategy, and size.

**Uncertainty.** The tasks in organizations vary from those low in uncertainty (predictable tasks) to those high in uncertainty (unpredictable tasks). Tasks low in uncertainty can be governed by rules and standard operating procedures. Tasks high in uncertainty cannot, so they require one-off decisions made by managers and/or discussions between employees. A major source of task uncertainty is the environment that surrounds the organization (e.g., competitor actions).

**Innovation.** Producing the same product or service repeatedly can be governed by standard operating procedures supplemented by direct supervision; such an organizational structure is seen as mechanistic.
But creating and producing new products or services requires solving novel problems and dealing with uncertainty. Experts have to be recruited and encouraged to use their initiative, freed from close supervision and organizational rules. This organizational structure is often called organic. Organizations routinely producing products or services can centrally plan the flow of activities between functional departments and out to the customer, whereas organizations creating and producing new products or services must foster spontaneous interactions between specialist functions, facilitated by cross-functional project teams that bridge between functional departments. The subcultures of these departments are necessarily different, reflecting differences in time horizons (e.g., short for production versus long for research) and so on.

**Interdependence.** Tasks vary in their interdependence between pooled, sequential, and reciprocal. In pooled interdependence, organizational subunits are only indirectly interdependent on each other, in that they all draw on a common pool, such as “branches” drawing on shared resources from the head office. The simplest and cheapest coordination mechanism suffices, such as rules. In sequential interdependence, each organizational subunit is linked to the others in a chain, so that a subunit takes in input from one subunit and gives its output to another. This requires coordination by planning, which is more complex and costly than coordination by rules. In reciprocal interdependence, organizational subunits interact back and forth with each other, so they must mutually adjust to each other, the most demanding and costly form of coordination mechanism. (For these coordination mechanisms to be appropriate, the sequence of pooled-sequential-reciprocal interdependencies needs to be a series marked by increasing uncertainty.)

**Strategy.** For organizational design, key aspects of organizational strategy are diversification and vertical integration. Diversification refers to the degree of difference among the products or services produced by an organization. It is useful to distinguish between undiversified organizations, that is, organizations producing a single product or service; medium diversified organizations, that is, organizations producing multiple but related products or services, and highly diversified organizations, that is, organizations producing multiple but unrelated products or services. Undiversified organizations are best fitted by a functional organizational structure, in which the managers who directly report to the CEO are each specialized by a function, such as marketing or manufacturing. Having organizational members specialized by function facilitates their expertise in that activity and fosters economies of scale, leading to superior efficiencies and lower costs. The functions are highly dependent on each other, in that marketing sells what manufacturing makes. Functional organizations are relatively centralized, in that the CEO is involved in some of the coordination of the functions and may make some of the operational decisions, such as what priority in production and delivery to give to key customers.

In contrast, for highly diversified organizations, their unrelated product-markets are diverse, so managers and organizational subunits specialized by each are required. Such organizations are best fitted by a multidivisional organizational structure, in which the managers who directly report to the CEO are each in charge of a division, that is, a business that focuses on a particular product or service or customer. Each division has a range of operating functions, such as manufacturing and marketing. Their emphasis is upon devising and delivering products or services that suit their market. The divisions have a lot of autonomy on operational matters because they have that expertise, whereas the head office lacks it. Thus, the organization is decentralized in much of its decision making. The corporate head office needs only contain specialists in finance, legal, and other administrative functions.

In between, medium diversified organizations are also best fitted by a multidivisional organizational structure. But because their products and services are related, there are synergies to be extracted; hence, specialists, such as in procurement and corporate marketing, are needed in the corporate head office, alongside the administrative specialists. The divisions have to be more coordinated in their actions so that the medium diversified organization is decentralized only to a medium level in its decision making.

In vertically integrated organizations, there is a strong connection between its products, such as mined aluminum, refined aluminum, and goods fabricated from that aluminum (e.g., window frames). Therefore, on the one hand, the mines, refineries, and factories are each a division and need some
autonomy to run their operations. On the other hand, the flow of material between the divisions requires coordination, so there are production planning and transport functions in the head office, which limit the autonomy of the divisions. Thus, there is some centralization of decision making in vertically integrated organizations.

Strategies with a dual focus, such as being diversified on both product and area, tend to be fitted by a matrix in which a manager reports to two bosses, for instance, both to the heads of the product and of the area.

Size. For organizational structure, the key aspect of organizational size is the number of members, such as the number of employees of a business firm. Increasing size leads to structural differentiation and bureaucracy. Larger organizations are of course more structurally differentiated than smaller organizations, with more departments, more sections, more job titles, and a greater number of levels in the organizational hierarchy that runs from the CEO to the bottom-level worker. Larger organizations are also more bureaucratic than smaller organizations. Bureaucracy here means formalization: rules, standard operating procedures, written job descriptions, and the like. Bureaucratic organizations also tend to be decentralized in their decision making. As organizational size increases, top managers are less able to control things by directly supervising people and making the decisions themselves. They are forced to delegate decision-making authority down to middle-level managers, but they compensate by creating rules and procedures (i.e., formalization) that indirectly control lower level members.

Putting the size and innovation contingencies together, scholars can say that as organizations grow in size, they increase their formalization and decentralization, but if they are innovative, they also reduce their formalization to a degree and increase their decentralization to a degree. This is accomplished by having research and development (R & D) departments and cross-functional project teams that work free from rules and enjoy autonomy, alongside manufacturing departments that are more bound by rules and are more centralized in their decision making. This is also known as being an ambidextrous organization.

The domain of the foregoing organizational structure and design theory is wide. It generalizes to organizations in many industries such as electronics and insurance, and, many types such as manufacturing and service. The main exception is that, as they grow in size, some organizations do not decentralize as much as business firms decentralize. These organizations are governmental and public-sector organizations, and labor unions. Whereas business organizations are prepared to grant some discretion to managers as to how they produce their results (e.g., sales growth), in these other types of organizations, their governing boards wish to exert more control over how their managers do things.

Evolution

The classic pioneers of management theory, for example, Edward F. L. Breck, expressed views about organizational structural design and its relevance for managers across many organizations. Their principles of management included the idea of organizational hierarchy as necessary and functional for effective operations. Specialization of workers, and indeed of foremen, was seen as enhancing productivity. The whole idea of studying management questions scientifically and coming up with valid guidelines for managerial practice promotes the notion of consciously designing and redesigning organizations. However, such knowledge was to be restricted to managers and their advisers and was to be oriented toward discovering a universal one best way for all organizations. And the image of the worker and of the effective production system tended to be very impersonal. This was echoed in early organizational sociological concepts from Max Weber of rational organization and bureaucracy.

Partly in response, the human relations movement, with roots in social psychology, stressed the emotional side of workers and the dynamics of groups, as well as propounding the benefits of communications and participation by members from lower organizational levels, as espoused, for example, by Rensis Likert.

Subsequently, structural contingency theory reconciled these two divergent views, proposing that the classical management view, the mechanistic organization model, was valid for tasks low on uncertainty, while the human relations view, the organic organization model, was valid for tasks high on uncertainty.

Tom Burns and George McPherson Stalker proposed that the mechanistic structure fits organizations
that are low on the rate of technological and market change (e.g., firms in the textile industry), whereas organizations that are high on the rate of technological and market change (e.g., firms in the electronics industry) do fit the organic structure. In similar vein, Jerald Hage proposed that efficiency and low rates of program change in organizations are suited by highly formalized (e.g., many rules) and highly centralized structures, whereas high rates of program change in organizations are suited by less formalized (e.g., few rules) and decentralized structures.

Also, Paul R. Lawrence and Jay W. Lorsch proposed that organizations facing predictable environments had low amounts of differentiation between their functional departments and so required only relatively weak integration to match, whereas organizations facing unpredictable environments had high amounts of differentiation between their functional departments and so required relatively strong integration. Thus, the level of differentiation must be matched by the level of integration for high performance to result. However, this held only for undiversified organizations whose major subunits are functional departments (e.g., sales, production, and research) and therefore are highly interdependent. In a subsequent study of diversified corporations, there was no relation between the match of differentiation-integration and performance. J. D. Thompson had proposed that organizations vary in the interdependence of their subunits. Therefore, subsequently, Lorsch and colleagues proposed that differentiation and integration need to match only in an organization whose subunits are interdependent. However, for an organization whose subunits are not interdependent, differentiation and integration need not match. Lawrence and Lorsch described their approach as a contingency theory. There had already been a contingency theory of leadership, but theirs was the first application of this term to organizational structure. This became known as structural contingency theory.

At about the same time as Burns and Stalker, Alfred D. Chandler conducted histories of the strategy and structure of some large U.S. corporations and concluded that their adoption of the multidivisional structure was necessary to match their diversification. This was assimilated into structural contingency theory as the fit between organizational structure and organizational strategy.

Likewise, the relationship between organizational size and structural differentiation was an empirical discovery by Peter Michael Blau and Richard A. Schoenherr that Blau turned into an axiomatic theory. Similarly, the relationship between organizational size and bureaucracy was an empirical discovery that was then given a theoretical interpretation by John Child.

**Importance**

There has been a considerable body of empirical research into organizational structure and design. Much of it supports structural contingency theory. For instance, following the lead of Chandler, studies using large numbers of observations have shown that his “strategy leads to structure” and that the relationship holds in a range of countries such as Australia, France, Germany, Italy, Japan, and New Zealand. And studies using statistical methods have shown that the fit of structure to strategy has a positive effect on performance. A rival theory is that divisionalization is a fit to organizational size, but this relationship has not been so strongly supported empirically. Divisionalization is the change from the major subunits of an organization being differentiated typically by function to being differentiated by product or service or customer or area. Divisionalization, though creating autonomous divisions, is a means of decentralization.

Similarly, the relationship between size and structural differentiation has been well supported in many different types of organizations (e.g., governmental and retail businesses) and some different countries. Contingency theory tends to interpret the relationship between size and structure differentiation as due to the level of structural differentiation needing to fit size. However, researchers in structural differentiation tended not to see size as being a contingency of structural differentiation. Instead they saw structural differentiation as having a direct positive effect on performance. Neither this, nor the contingency fit effect on performance, has received much empirical study.

Moreover, the relationship between size and various aspects of bureaucratic structure has been extensively empirically researched and received much support, generalizing across types of organization and countries. The relationship between fit of bureaucracy (e.g., formalization) to the size
contingency has also been studied empirically and gives support to structural contingency theory. Some of these aspects of bureaucracy, such as specialization, could also be regarded as aspects of structural differentiation and so provide support for a contingency theory interpretation of the relationship between size and structural differentiation.

Furthermore, the relationship between uncertainty, unpredictability and innovation, on the one hand, and the organic (i.e., low on both formalization and centralization), as opposed to mechanistic (i.e., high on both formalization and centralization), structure, on the other hand, has been extensively studied and well supported. The relationship between different types of interdependence and the various coordination mechanisms has been tested in only a few intensive case studies and some surveys but is generally supported. The relationship between innovation and the Lawrence and Lorsch integration mechanisms, such as cross-functional project teams, has been examined in a few studies and received some support.

Overall, the structural contingency theory provides a logical theory of the various organizational structures and why they exist: namely, because they are needed to fit all the combinations of the various contingency variables. Much of the empirical research finds associations between the contingencies and the structural variables. Thus, some managers have been able to choose fitting structures without guidance from the theory, which often arose after the initial empirical discoveries of those associations. This might seem to make structural contingency theory of limited practical value. However, empirical studies almost invariably find that a substantial number of organizations studied are in misfit and therefore losing performance through having suboptimal structures. For instance, a study of multinational corporations found that many of them had a structure that misfits the contingencies. Moreover, even where the correct structure has been chosen—for example, the multidivisional structure—some of its component parts may be missing, rendering it suboptimal.

Therefore, there is a role for formally educating managers in organizational design based on the contingency approach, to improve their structural choices. Consistent with this, many courses for managers, such as master of business administration (MBA) or executive programs, present some variant of the structural contingency theory model given here—though they may not be called that. Instead, they may be called organizational design, strategic organization, or organization for innovation, or some such. On the basis of his experience teaching in business schools, Lex Donaldson says most students and managers find the structural contingency theory model of organizations to be informative and reasonable. While the model features a number of contingencies and structural aspects, it is only of moderate complexity. Today, there is a computer program, the OrgCon, by Richard Burton and Børge Obel, which generates the optimal organizational design, given the scores on the contingency variables.

Lex Donaldson

See also Bureaucratic Theory; Contingency Theory; Differentiation and the Division of Labor; Environmental Uncertainty; Matrix Structure; Organic and Mechanistic Forms; Strategy and Structure

Further Readings

Organizationally Based Self-Esteem

Self-esteem, one of the most researched constructs in the behavioral sciences, pertains to an individual’s overall evaluation of his or her competencies. The construct’s central management insight is that an individual’s self-esteem can be shaped by the work setting, affecting the individual’s view of how capable and valuable he or she is as a member of the organization. Self-esteem is viewed as a hierarchical phenomenon that operates at different levels of specificity, each one articulated around a different facet of the self (physical, social, psychological, etc). This self-evaluation includes a cognitive component (being competent and adequate) as well as an affective one (liking or disliking oneself). Organizationally based self-esteem (OBSE), a term first coined by J. L. Pierce and colleagues in 1989, focuses on self-esteem within the context of work, consequently reflecting individuals’ self-perceptions of worth as organizational members acting in an organizational context.

This entry discusses the factors that influence OBSE, as well as how it is related to other facets of self-esteem. Next, it delineates some of the characteristics of OBSE, presents the most relevant findings regarding the consequences of OBSE, and analyzes the role of OBSE as an important moderator for various organizational dynamics. The entry is concluded with a discussion of some of the practical implications of OBSE.

Fundamentals

OBSE is influenced by three different factors. First, it is affected by signals from environmental structures, such as control systems that carry assumptions about the individual ability to self-regulate. In fact, job complexity, autonomy, and perceived supervisor support have all been found to be related to OBSE. Second, it is shaped by messages sent from significant others that reinforce an individual’s sense of self-worth. Following this rationale, coworker social support, for example, has been found to contribute to OBSE. Finally, OBSE also develops from an individual’s direct and personal experiences, most notably successes and failures. As a dimension embedded within the higher order self-esteem construct, OBSE is intimately linked to other facets of self-esteem such as global (general, overall self-esteem) self-esteem and task-related self-esteem. Because global self-esteem is already developed upon organizational entry, organizational newcomers’ level of OBSE is mostly driven by global self-esteem. With work experience however, OBSE develops and becomes better integrated with global self-esteem. Not surprisingly, much research on OBSE pertains to its development in organizational newcomers.

Although OBSE can fluctuate over time, it is generally stable when the work environment is stable as well. Moreover, self-consistency theory suggests that individuals seek to maintain a consistent level of self-esteem and, as a result, will respond to work stimulus in a manner that coincides with their level of self-esteem. Thus, someone with high OBSE is more likely to develop positive work attitudes and perform effectively at their work. The self-reinforcing cycle purported by self-consistency theory has been supported empirically.

Consequences of OBSE include motivation, attitudes, and work behaviors. For example, much research supports the relationship between OBSE and different facets of satisfaction and commitment, such as general satisfaction, organizational satisfaction, and organizational commitment. The reasoning behind these findings is that individuals with high OBSE will perceive themselves as valuable members of the organization, which in turn will increase their satisfaction at work and commitment to the organization. With regard to behaviors, empirical findings support a link between OBSE and turnover, job performance, citizenship behavior, and other high-level career elements. The literature argues that an individual who exhibits high levels of OBSE will have fewer intentions to leave the organization and will perform at higher levels than individuals with lower OBSE.

A vast literature focuses on the role of OBSE as a moderator of the relationships between work stimulus and behavior. For example, it has been noted that OBSE moderates the relationship between specific types of challenges (which include job transitions, task-related challenges, and obstacles) and development in organizations. OBSE has also been found to moderate the relationship between organizational uncertainty perception (job insecurity and anticipation of organizational changes) and intrinsic motivation, organizational commitment, and absenteeism.
Another example of OBSE as a moderator can be found in the relationship between role conditions (role ambiguity, role conflict, role overload, work environmental support, and supervisory support) and response (achievement satisfaction and role performance). Most of the work on OBSE has relied on the instrument developed by J. L. Pierce and colleagues. The 10-item measure requires the respondent to think about his or her relationship with his or her organization and is composed of statements such as “I count around here” and “I am trusted around here.” Empirical evidence supports the validity of this instrument in North American and also in international contexts.

There are several practical implications of OBSE for managers and practitioners. OBSE can serve as an important and fundamental indicator for organizations. Organizational practices that provide opportunities for the worker to develop self-direction and self-control may boost OBSE and its positive consequences. Any signal that the organization can give employees to make them feel worthy members of the organization will not only positively impact OBSE, but also it may have an effect on employee satisfaction and commitment to the organization. The organization may also want to decrease adverse work conditions that negatively impact OBSE, such as role ambiguity, job insecurity, discrimination, and harassment in the workplace.

**See also** Job Characteristics Theory; Leadership Practices; Organizational Commitment Theory; Organizational Identification; Self-Concept and the Theory of Self; Theory of Self-Esteem

**Further Readings**


PARTICIPATIVE MODEL OF DECISION MAKING

A participative model of decision making takes into consideration that various situational forces influence, to some degree, the type of participatory approach managers should select during decision-making efforts. To this end, this entry first presents the seminal framework of Victor Vroom, Philip Yetton, and Arthur Jago, which offers a normative decision model (NDM)—or “decision tree”—to guide managers in systematically examining the structure of a decision context, assessing a defined set of criteria and relevant contingencies, and subsequently adopting the appropriate degree of participation in their decision-making style. Second, the entry presents Laurie K. Lewis and Travis L. Fuss’s model focusing on participation during planned change efforts. The model incorporates dimensions that may influence managers’ choices as well as different approaches for facilitating varying degrees of stakeholder participation. Implications for contemporary management practices are discussed.

Fundamentals

Following the tradition of preceding situational leadership models, NDM can help leaders choose the most appropriate approaches for facilitating decision-making processes. The central premise of NDM is that the best approach for making organizational decisions is contingent on a number of situational factors, including quality, commitment of group or organization members, and time restrictions. NDM also argues that different decision-making situations require different leadership styles. NDM highlights five potential leadership styles and arranges them along a continuum, ranging from autocratic to consultative to group. Advancing a decision tree-type framework, NDM provides a systematic formula for identifying the most appropriate style that leaders can use when determining the degree to which they should involve subordinates in decision-making processes.

Yes or No Questions

NDM advances a series of seven questions to help leaders determine to what degree they might involve subordinates in decision-making processes. These questions are designed to be answered with either “yes” or “no” responses, creating a decision tree-type framework for determining the most appropriate decision-making style for a particular situation. The following highlights the eight assessment questions:

1. Is it absolutely critical that the “right” (or high-quality) decision is made? In other words, are the consequences of a “wrong” (or low-quality) decision significant?
2. Is it critical that subordinates are committed to the decision?
3. Do you (the leader) possess adequate information to make a high-quality decision on your own?
4. Is the problem structured in a way that the key issues and potential solutions are clear?
5. If you (the leader) made the decision independently, is it likely that your subordinates would be committed to the decision?
6. Do subordinates share the organizational goals to be obtained vis-à-vis the decision-making process?
7. Is it probable that conflict will emerge among subordinates when identifying the right decision?
8. Do subordinates possess adequate information to make a high-quality decision?

**Decision-Making Styles**

NDM advances a systematic decision tree-type framework for using the answers to the preceding yes or no questions to determine which style leaders should use in specific decision-making situations. NDM distinguishes five types of decision-making approaches organized into three styles, ranging from autocratic to consultative to group. Generally, an autocratic decision-making style is most appropriate when the leader possesses greater expertise about the problem than others, acting alone is not expected to cause any adverse consequences, subordinates will likely embrace the proposed solution, and there is little time to make a decision. Conversely, a consultative or collaborative style is generally appropriate when additional information is needed to make a decision, the structure of the problem is unclear, subordinate commitment is vital, and the leader has time to facilitate a participative decision-making process. The following describes NDM's decision-making styles in more detail.

**Autocratic style.** This style involves the leader independently making the decision and then informing others about it in an autocratic fashion. There are two types of autocratic decision making.

- **Autocratic Type 1.** This approach involves the leader's using information that is readily available to him or her and independently making a decision.
- **Autocratic Type 2.** This approach concerns a leader's collecting the requisite information from others and then independently making a decision. The leader may or may not inform others about why the information is needed and/or the final decision.

**Consultative style.** This style describes the act of a leader soliciting input and/or information from others and then making a decision. There are two types of consultative decision making.

- **Consultative Type 1.** This approach involves a leader's soliciting input about a decision from select individuals one at a time (versus as a group). The leader makes the ultimate decision.
- **Consultative Type 2.** This approach involves a leader's soliciting input from selected stakeholders who, as a group, discuss the problem and possible solutions. The ultimate decision is made by the leader and may or may not be influenced by external input.

**Collaborative style.** The leader and stakeholders collaboratively discuss the problem and possible solutions. The leader facilitates the discussion, but the ultimate decision is made by the group. The goal is shared consensus around the best course of action.

**Participative Decision Making During Organizational Change**

Lewis and Russ advanced a model illustrating how individuals solicit and use input during organizational change. They argue that during organizational change, managers' choices of participatory approaches are influenced by two dimensions in particular: (1) fidelity goals and (2) degree of emphasis on resource orientation. The following describes these forces.

**Fidelity goals.** Fidelity is the degree of alignment between managers' preconceived goals and actual outcomes of the decision-making process. In some contexts, it may be desirable for employees to abandon the original decision and explore new and innovative alternatives. In other cases, managers may treat “fidelity” as a hallmark of success, desiring very specific a priori outcomes.

**Resource orientation.** Managers with a high resource orientation actively solicit and use input. These managers involve diverse stakeholders, asking for and acting on those ideas, suggestions, objections, and contributions that enhance decision-making processes. Managers with a low resource orientation take no real action on others’ feedback and treat soliciting others’ input as a symbolic exercise.
When combined, the two dimensions presented above—fidelity goals and resource orientation—produce four general approaches for soliciting and using input during decision-making processes. The following describes each approach.

**Open.** This approach is used when managers have a low resource orientation and a low-to-moderate value for fidelity. In using this approach, managers seek input in a passive manner (e.g., a suggestion box) and use a flexible litmus test for evaluating “useful” input. This approach is used when managers do not have a strong “stake” in the decision-making process and/or do not face tremendous pressure to achieve specific, predetermined outcomes.

**Restricted.** This approach is used when managers have a low resource orientation and a high value for fidelity. In using this approach, managers solicit input from a narrow pool of stakeholders who are directly impacted by the decision-making outcomes and/or predicted to provide low to no resistance and/or minimal disruption to the decision-making process. Upon receiving input, managers apply strict litmus tests to find reasons for rejecting suggestions or critiques.

**Political.** This approach is used when managers have a moderate resource orientation and a low-to-moderate value of fidelity. Using this approach, managers grant more opportunities for participation in the decision-making process to those stakeholders with high perceived levels of perceived political power.

**Advisory.** This approach is used when managers have a moderate resource orientation and a high value for fidelity. Using this approach, managers solicit input from stakeholders, including advisers and opinion leaders who can provide advice for implementing the original vision as well as individuals who can persuade others to become supportive.

**Importance**

The NDM makes several valuable contributions to the landscape of literature on participative decision making. First, this model advances a systematic road map that can help leaders determine the most appropriate approach for making organizational decisions, ranging from autocratic to consultative to collaborative. In this sense, the NDM is very objective focused, providing leaders with a helpful decision-making tree that matches the goals and needs of the situation with the most appropriate decision-making style and approach. While valuable, NDM does possess some limitations. The greatest limitation may be that the NDM could be perceived as a one-size-fits-all framework and appear too rigid, mechanical, and limiting. For example, the assessment questions proposed by the NDM may be too general and lack specific contextualization. The NDM does not take into account the unique nature of the target problem nor does the NDM consider subordinates’ experiences, emotions, or interpersonal relationships. For this reason, the NDM may not be adaptable and/or useful to unique decision-making situations and diverse organizational populations.

The participative model of decision making (PMDM) makes several valuable contributions to the landscape of literature on participative change approaches. First, this model recognizes that different forces likely influence managers’ decisions about the type of participatory approach they use in change situations. Indeed, such patterns of input solicitation and use may be prevalent across contexts and types of organizations and change contexts. Second, the PMDM provides a language for talking about and classifying different types of participatory change approaches. The framework names the theoretical strategies that can be helpful when describing implementers’ common practices in soliciting and using stakeholders’ input during change. Third, the PMDM provides a predictive framework for anticipating when managers might use each change approach. Considering fidelity goals (i.e., the degree of variation desired) and resource-orientation goals (i.e., focusing on stakeholders’ input as a means to discover errors and information that might enhance the decision-making process) helps us understand why, how, when, and with whom managers use different participatory approaches during change efforts.

*Travis L. Russ*

**See also** Contingency Theory of Leadership; Decision-Making Styles; Leadership Continuum Theory; Situational Theory of Leadership; Strategic Decision Making; Theory X and Theory Y
Path-Goal Theory of Leadership

The path-goal theory of leadership considers the effectiveness of alternative leader behaviors in different situations. The idea that there are no universally effective leadership behaviors and that situational factors determine optimal leadership behavior, path-goal theory is in a category of leadership theories termed “situational theories of leadership.” Simply stated, situational leadership theories such as path-goal theory emerged out of the realization that characteristics of the situational context in which leaders find themselves must play a critical determining role in how a leader should behave to maximize important employee outcomes such as satisfaction, motivation, and work performance. As one of a number of situational leadership theories, path-goal theory has found a prominent and enduring place among leadership theories within the field of management. More than 40 years have passed since the theory was first articulated by Robert House in 1971, yet the theory continues to be a mainstay entry in chapters on leadership and in most organizational behavior textbooks. As such, inclusion of the theory in this encyclopedia is clearly warranted. This entry reviews the theory, considers how it was developed and has evolved over time, and concludes by discussing the importance of the theory for leadership theory and research.

Fundamentals

According to path-goal theory, the principal function of leadership is to engage in behaviors that facilitate employees in the pursuit of their goals. Thus, the theory proposes that leaders should help remove obstacles and clear the path for employees so that they may enact whatever work-related behaviors are requisite to obtaining valued outcomes (e.g., pay, promotion, performance, status, etc.). Importantly, the theory is concerned with dyadic relationships between leaders and their employees: Therefore, the theory does not consider, for example, leadership processes in larger work units or groups. In sum, the theory focuses on leader behaviors directed toward or relating to individual employees.

According to path-goal theory, there are four major categories of leadership behavior: (a) directive behaviors, (b) supportive behaviors, (c) achievement-oriented behaviors, and (d) participative behaviors. Directive behaviors include a constellation of leadership behaviors designed to provide employees with structure and vital information required for them to clearly see the path to their individual goals. Examples of these behaviors include clarifying employee roles and expectations, providing technical guidance and assistance, and coordinating and scheduling work. Not included in this category are punitive or otherwise sanction-based actions that do not support employees as they strive for valued outcomes.

Further Readings

Lewis, L. K., Richardson, B. K., & Hamel, S. A. (2003). When the stakes are communicative: The lamb’s and the lion’s share during nonprofit planned change. Human Communication Research, 29, 400–430.
Supportive behaviors represent leadership behaviors aimed at creating a supportive work environment while serving to boost employee confidence and lowering perceived stress at the same time. Examples of supportive leadership behaviors include seeking out employees to hear and potentially address their concerns, displaying warmth and an openness to meet with employees as required, and creating a friendly work atmosphere.

Achievement-oriented behaviors consist of those leadership behaviors directed toward attempts to maximize employee performance. Examples of this category of leadership behaviors include setting difficult yet attainable employee work goals, encouraging employees to strive for performance excellence, and boosting employee confidence so that they can achieve a high level of performance.

Participative behaviors consist of leadership behaviors designed to involve employees in decision making by giving them an opportunity to provide input into work-relevant decisions. For example, leaders may engage employees by soliciting their opinions, empowering employees to make their own decisions concerning certain aspects of their work activities, and collaborating with employees while setting work goals.

Given that there are four major categories of leadership behaviors with a number of distinct behaviors embedded within each category, the theory provides some guidance concerning which behaviors leaders may use when clarifying path-goal relationships and helping employees achieve valued outcomes. Specifically, the theory posits that situational factors, including both employee characteristics (e.g., employee skills) and environmental factors (e.g., difficulty of work tasks), must be considered when leaders decide on specific actions. Based on an analysis of the situational context, leaders then choose to engage in certain behaviors from one or more of the major categories. This allows them to assist individual employees as they navigate the path toward valued goals.

For example, if an employee is highly skilled and knowledgeable, a leader may be more inclined to choose participative and/or achievement-oriented behaviors and concomitantly less inclined to choose directive behaviors. However, in a highly uncertain and unstable environment, even a highly accomplished and skilled employee may require more directive behavior from a leader. As another example, a stressful and demanding job may necessitate a leadership style that balances supportive behaviors (to address the stress component) with achievement-oriented behaviors designed to reinforce the employee's confidence reflecting performance requirements that are both realistic and achievable. It should be noted that the theory does not map out all possible situational contingencies and their interactions to predict specific optimal leadership behaviors. Rather, the theory acknowledges that effective leadership requires leaders to choose their actions in accord with their perceptions of situational factors. According to Robert House, critical to path-goal theory are the consequences of effective leadership behavior for employee motivation. Although widely considered a leadership theory, path-goal theory is equally concerned with employee motivation. As discussed below, a number of specific theories of work motivation are embedded within path-goal theory.

The theory of motivation most clearly and directly part of the foundation of path-goal theory is Victor Vroom's expectancy theory of work motivation—one of a number of similar theories that emerged in the 1960s. The conceptual importance of expectancy theory was acknowledged by Robert House in his formulation of path-goal theory. Here, we will describe only elements of expectancy theory directly related to path-goal theory. Because the topic of expectancy theory is covered separately in this encyclopedia, this entry will describe only key aspects of the theory in general terms as they relate to path-goal theory.

Specifically, path-goal theory predicts that effective leadership has a direct effect on employee cognition. According to expectancy theory, employees are motivated to engage in certain behaviors when (a) they expect that exerting effort will enhance their performance and (b) they believe that high performance will lead to valued outcomes. How does leader behavior affect employee cognition in this regard? First, an assumption is that an effective leader determines precisely which outcomes are most valued by an individual employee. These outcomes may be tangible, such as enhanced pay, or more intrinsic, such as enhanced self-esteem or a sense of achievement. The leader must also ensure that an employee perceives himself or herself as capable of achieving the level of performance necessary for
attaining valued outcomes. For example, a leader can remove obstacles to performance and boost the employee’s confidence. The leader must also clarify linkages between performance and outcomes for the employee. Thus, if an employee erroneously believes that valued rewards are forthcoming regardless of his or her performance level, the leader must clarify and help the employee understand that a high level of performance is instrumental for attaining rewards. In essence, a fundamental assumption of path-goal theory is that a leader’s role is to help employees cognitively navigate through decisions and motivate them to engage in behavior that will lead to valued outcomes.

Assuming that the leader is successful in clarifying the various path-goal linkages and motivating an employee to attain high levels of performance, both leader satisfaction and employee satisfaction will be enhanced. A rational cognitive process is assumed to underlie decisions to exert increased work effort toward personal goal attainment. However, Robert House acknowledged that the utility of his theory for predicting employee attitudes and behavior hinges on the assumption that the employee is a rational actor who engages in rational decision-making processes concerning effort exertion. He suggested that there may be situations where the tenability of this assumption is challenged (e.g., when employees are under severe work stress and cannot think rationally)—and this may create a boundary condition on the validity of path-goal theory for understanding the link between leader behavior and employee motivation.

**Relationship With Other Theories**

Beyond expectancy theory, path-goal theory incorporates other theoretical perspectives on work motivation. As such, motivational theories commonly construed as need theories of motivation (e.g., Abraham Maslow’s hierarchy of needs theory) have a conceptual link to path-goal theory, insofar as the leader is assumed to assist employees in meeting their most important needs. In addition, Edwin Locke and Gary Latham’s goal-setting theory of motivation finds a conceptual home within the larger path-goal framework. A key tenet of goal-setting theory is that difficult goals will be more motivating than easier goals, conditional upon employee goal acceptance. Path-goal theory incorporates these ideas, with the inclusion of achievement-oriented leader behaviors directed toward enhancing goal difficulty and participative behaviors concerned with fostering goal acceptance.

To the extent that path-goal theory consolidates various motivational theories under a single conceptual umbrella, it may best be characterized as a metatheory—a theory that integrates or consolidates more than one theoretical perspective. However, unlike metatheories of motivation (e.g., Howard Klein’s control theory of motivation comes to mind here) specifically focused on the topic of motivation, path-goal theory is considered a theory of leadership—and was not developed with the goal of conceptual integration of diverse motivational perspectives. The fact that organizational behavior textbooks commonly place path-goal theory in chapters on leadership (and not in motivation chapters) underscores this point. Clearly, Robert House developed the theory as a leadership theory, while acknowledging the critical role of motivational processes as a subcomponent of the theory.

Path-goal theory also shares elements with other theories of leadership. For example, a series of studies emanating from Ohio State University in the late 1940s uncovered two broad leadership styles: initiating structure and consideration. This led to the development of measures intended to assess the extent to which leaders engage in each of these behavioral styles (e.g., Leader Behavior Description Questionnaire) and considerable research examining the correlates (e.g., job satisfaction) of these alternative styles. Conceptually, initiating structure is similar to the path-goal category of directive leadership, while consideration is similar to the category of supportive leadership. Similarly, research from the University of Michigan (conducted around the same time as the Ohio State studies) uncovered two dimensions that parallel directive and supportive behavior categories, respectively: production-oriented leaders and employee-oriented leaders.

Path-goal theory also shares elements with other situational theories of leadership. For instance, Fred Fiedler’s contingency model and Paul Hersey and Ken Blanchard’s situational leadership theory share commonalities with path-goal theory insofar as all three theories suggest that effective leadership depends on the degree of fit between the leader’s behavior and various factors in the particular situation.
Evolution

The genesis of path-goal theory can be traced to research conducted by Martin Evans from the University of Toronto in the late 1960s. Robert House was intrigued by Evans’s incorporation of expectancy theory as a mechanism for understanding the effects of either initiating structure or consideration leadership styles (see description above) on employee behavior. Moreover, he was intrigued that the same leader behaviors proved to be effective or ineffective, depending on the organization in question. This led him to theorize that contextual factors play a role in determining whether and to what extent specific leader behaviors are effective. The theory evolved, and Robert House and Terrence Mitchell published a paper in 1974 introducing the directive and supportive leadership behavior categories—effectively replacing the initiating structure and consideration categories, which were included in the earliest instantiation of path-goal theory published by Robert House in 1971. In addition, to better and more fully capture the ways in which leader behavior may influence employee motivational processes, the achievement-oriented and participative leadership categories were added to the theory in 1974.

In a subsequent paper published in 1996, House reviewed the original theory and presented additional insights and suggested modifications in light of existing empirical evidence and further conceptual analysis. First, the theory was relabeled as “the path-goal theory of work unit leadership,” owing to the fact that the theory was broadened to consider both the performance of individuals as well as larger work units. Second, House presented a variety of conceptual propositions around an expanded set of eight leadership behavior categories—building on and extending the original set of four categories.

Notably, one of the new categories is value-based leadership. This category is conceptually similar to a leadership theory that has gained prominence in the literature: transformational leadership theory. In the updated theory, House offered a number of propositions concerning value-based leadership. For example, he conjectured that a value-based leadership strategy would be most effective when a leader refrains from linking performance to extrinsic rewards. This proposition has been tested in recent research, although it has received only minimal support to date. The incorporation of value-based leadership in the updated theory represents yet another example of the conceptual linkages of path-goal theory with other prominent leadership theories as delineated above.

Along with an expanded set of leadership categories, the updated theory considers a variety of situational variables that suggest particular choices of leadership behavior designed to assist employees in meeting their goals. Much like the original theory, the updated theory is employee focused, suggesting that the role of leadership is to assist employees in overcoming personal and/or environmental deficiencies that provide roadblocks on the path to meeting personal goals. Accordingly, leadership is considered necessary only when employees need path-goal clarifications. Therefore, the updated theory also allows for substitutes and neutralizers for leadership. That is, in some situations leaders are irrelevant and certain situational factors can act as substitutes for leadership or neutralize the leader’s ability to influence his or her employees. For example, the training or experience of employees can replace the need for a leader’s support or ability to create structure.

Importance

Given that the pre-1996 conceptualization of the path-goal theory has been the subject of most scientific scrutiny, our discussion will be focused on this version of the theory. Overall, the theory has received mixed support, especially when using work performance as the outcome. As House and others have noted, however, there have been deficiencies in prior testing that call into question whether the theory has been properly tested at all.

On this, Martin Evans suggested that the theory has not been properly tested in that researchers typically correlate leadership behavior with employee outcomes, without due consideration and examination of cognitive-motivational processes fundamental to the theory. House has raised myriad concerns, including the fact that poor measures have been used to assess leadership behavior and that the contribution of the theory in predicting employee performance and job satisfaction beyond other variables (e.g., organizational commitment) has not been considered. In addition, self-report measures were commonly used in prior research to test various components of path-goal theory (e.g., moderator and outcome variables), and this could have led to
research participant biases influencing study results. Also, John Jermier pointed out that the complexity of the theory has not been well served by relatively simplistic research approaches typically used to test the theory components.

Notwithstanding mixed research findings and interpretational difficulties arising from various study weaknesses, path-goal theory has had a significant and lasting impact on leadership theory and research. House noted that the theory’s assumption that leaders serve to trigger a motivational process became a conceptual starting point for the development of his charismatic leadership theory. In addition, path-goal theory may have played a role in the development of substitutes for leadership theory. Specifically, substitutes for leadership theory considers the idea that given certain situational factors, employees may be able to self-lead. The idea that the nature and extent of leadership behavior will hinge on the situational context can be traced directly back to path-goal theory.

Jermier stated that the lasting impact of path-goal theory may be better appreciated when it is realized that it was the first leadership theory to (a) consider a variety of leadership behaviors, (b) focus on leadership as a dyadic process, (c) map out some of the complexities inherent in the situational context that influence leaders, and (d) consider leadership as a function serving the needs of subordinates and a function that may be undertaken by nonleaders in certain situations.

The focus on the needs of followers implies that path-goal theory is focused on followership, a hot topic in leadership theory today. With well over 300 citations and continued exposure in management textbooks, it is clear that the path-goal theory remains relevant and represents far more than a historical footnote in the field of leadership. Hopefully, future research will consider the important link between leadership and motivation as explained in the theory, thereby furthering our knowledge concerning the importance of leadership for employee motivation.

Modern managers can benefit by understanding the theory and the implications it provides for leadership practice. Explicitly, the theory provides managers with a contingency-based strategy for aligning leader behaviors with the needs and desires of followers. A key take-away message of the theory is that there is no “one size fits all” when it comes to leadership. Rather, by properly diagnosing the situational context, leaders may choose those behaviors that best serve to motivate followers in helping them achieve work-related goals. By achieving these goals, this should serve to both enhance employee performance as well as job satisfaction.

Heather MacDonald and Mary Sully de Luque

See also Charismatic Theory of Leadership; Expectancy Theory; Leadership Practices; Situational Theory of Leadership; Substitutes for Leadership

Further Readings
Patterns of Innovation

While the phrase *patterns of innovation* can refer to any research program attempting to explain modes, models, and typologies of innovation, it is most typically used to refer to research spawned by two seminal works by James M. Utterback and William J. Abernathy. Abernathy and Utterback used the phrase to refer to cycles of product and process innovation that make up industry life cycles and to describe three stages—fluid, transitional, and specific—that co-align characteristics of productive units and the innovation types they produce. Utterback and Abernathy developed their strategic framework for patterns of innovation in two papers that present a new model for understanding a business unit's capacity for and methods of innovation based on its stage of evolution. This entry presents the central themes in these two articles, distinguishes the life cycle stages that Abernathy and Utterback identify, and discusses their importance.

**Fundamentals**

Utterback and Abernathy introduced the term *productive unit* to refer to a product line and its associated production process collectively and argued this was the appropriate unit of analysis from which to study patterns of innovation. In “Patterns of Industrial Innovation” Abernathy and Utterback link the evolution of a productive unit to the kinds of innovations it is most likely to produce, and in “A Dynamic Model of Process and Product innovation,” they describe a corresponding industry life cycle pattern. Generally, they argued that early in an industry’s development, the product space is somewhat ambiguous, and functional improvement is the overriding focus of productive units’ innovative efforts. Small, flexible productive units tend to focus on radical innovations, and are internally fluid organizations, capable of responding quickly to shifts in the demand for their products. Later, larger, mature productive units focus on operating tight and highly structured organizations and develop incremental innovations. Demand for their product has stabilized, enabling these productive units to focus on creating the most efficient and effective modes of delivering products with specific properties.

**The Dynamic Model of Product and Process Innovation**

In their 1975 publication, Utterback and Abernathy hypothesized a systematic relationship between the stage of development of a firm’s productive processes and the character of its innovations, strategy and competitive focus. They proposed a coherent pattern, linking market and technology triggers for innovation to innovation types (product and process) and to barriers to innovation. As industries mature, the competitive space becomes standardized, rigid, and stable, and flexible processes are exchanged for low cost and consistency.

**The process stages.** In the uncoordinated stage, Utterback and Abernathy argue that market expansion and redefinition result in high rates of product and process change and in competitive diversity. The greatest variety of processes exists in the uncoordinated stage because everyone is using manual operations and/or general-purpose equipment, and all producers use processes that have “unsettled” relationship between process elements. High-process slack is adaptive and organic but inefficient. In the segmental stage, they argue, price competition intensifies, tasks become more specialized, and the production system becomes integrated through automation and process control of subprocesses. They stress the segmented quality of the process since it is mainly subprocesses that are special purpose. The impetus for this development is higher sales volume and a few stable product designs. In the systemic stage, selective improvement of process elements becomes increasingly difficult. The process becomes highly integrated, making change costly. Incentive to change these processes is either a new technology or shifts in the requirements of the market. If changes are resisted by existing producers because of cost pressure, the window for revolutionary instead of evolutionary change opens.

**The product stages.** Performance-maximizing product innovation is typical in the uncoordinated stage. The rate of innovation is high and profit margins are large. Firms competing in this space will tend to rely on external sources of information, and diverse sources of information, to spur innovations. The industry will be made up of relatively few firms and either small, new firms or older firms attempting to
take advantage of their technological strengths. Production will tend to take place in affluent markets where a wide variety of inputs are accessible. The organization that is intimately familiar with customers and their needs will innovate best. Sales-maximizing strategies become more common as the industry ages and experience reduces market uncertainty. Innovations geared toward improving product performance tend to decline, unless customers can easily compare and evaluate performance improvements. Varieties of products are offered that best fit certain user needs so that both the market and the process are segmented. Cost-minimizing strategies become dominant in the mature industry, and product diversity declines. The industry moves toward oligopoly, capital investments are very high, and production is relocated to achieve the lowest possible costs. Major innovations are scant because they cannot justify the necessary costs of adjusting production.

**Evolution of stages.** Abernathy and Utterback are quick to point out that the progression of stages is not obvious nor is it necessarily linearly advancing. Sometimes industrial competition may halt or reverse stages of development. As a consequence, the model cannot be viewed as a strictly sequential model, and it becomes difficult to predict, using the model alone, what strategies are ideal for any particular firm competing in the space. Firms that rush toward cost minimizing may find themselves eliminated by the innovativeness of some firms still maximizing sales. On the other hand, firms that do not recognize powerful cost pressures may also be eliminated from the competitive space because they cannot survive against price pressure. In essence, this is a dynamic model determined by uncertainties in technological development and customer needs, which change over time. However, at a snapshot, one should be able to identify the overall fit of the model to reality. Finally, they stress that the locus of innovation shifts across stages, the type of innovation likely to succeed is stage dependent, and the total array of barriers to an innovation are associated with stages.

**Productive Unit Characteristics and Innovation**

In their 1978 article, Abernathy and Utterback defined the productive unit as their unit of analysis and distinguished its life cycle stages in greater detail. They also developed the concept of a dominant design—a set of attributes shared by most product offerings, whose emergence marks a turning point in an industry’s competitive and innovative focus. Productive units come into being with a particular novel product in mind and develop fluidly as the firm experiments and learns about the market’s reaction to it. As productive units move to a transitional stage, they begin to focus on process innovation. Later on, the same mature productive unit commits to certain key elements of product design. This, in turn, enables the production process to be standardized, to gain economies of scale, and to realize general cost advantages from efficiency and effectiveness within its productive niche. Product innovation occurs at a slower rate and becomes largely incremental. To further distinguish the three stages of a productive unit’s life cycle, Abernathy and Utterback identified nine dimensions, ranging from innovation focus and product line characteristics to organizational governance mode, that characterize each stage.

**Fluid pattern.** New productive units come into being in response to specific user needs. In the fluid state, the performance requirements for new products and market needs are not well defined, and the pace of technological innovation is rapid. As firms work to understand and address these nascent needs and to deliver a sufficient level of functional product performance, a diverse product line is created. Experimentation produces major changes to product design and includes customizing designs to respond to particular users. The production process for these products is flexible and inefficient, and changes are easily accommodated. They exploit materials and equipment that are generally available and rely on highly skilled labor. Often, small-scale plants located near the user or the source of technology are used. Organizational control is informal and entrepreneurial.

**Transitional pattern.** As firms come to understand user needs and match technical capabilities to those demands, they begin to specialize product design and associated production processes to improve reliability and work toward gaining some cost efficiencies. The focus during the transitional phase is on leveraging core product advantages through variations, expanding market reach, and leveraging opportunities created by expanding internal technical
capabilities. Productive units also struggle with the need to make major changes in processes to increase volume. Usually, this means they must focus and commit to one product design, which is stable enough to have sufficient production volumes and allow for some parts of the production process to be standardized and automated. While the trend is for them to become more rigid, there is still the possibility for big changes to occur in major production steps. Specialized materials may be demanded from some suppliers, and the general-purpose plant may be specialized in certain sections. Organizational control occurs through relationships, projects, and task groups.

**Specific pattern.** The product is now a commodity product, and the basis of competition shifts from performance to price and cost considerations. Innovation is less rapid and more incremental in nature. In the specific state, the organizational structure and control are more formal, with technology planning and forecasting being formally delegated tasks; control occurs through structure, goals, and rules. Productive units focus on driving margins through cost reductions and improving productivity and quality; production processes are rigid and capital intensive, so the cost of change is high. Specialized equipment and materials are employed, and production processes are mostly automated, requiring labor primarily for monitoring and control. If specialized materials are not available, vertical integration will be extensive.

**Importance**

Abernathy and Utterback’s core observations have found empirical support in a wide range of industries and have become central tenets in subsequent research. For instance, the progression from fluid to rigid product designs and associated production processes is a core theme in research on dominant design and cycles of technological change. Other industry life cycle theories also posit a progression from product or quality innovation to a focus on cost reduction. However, the theory’s boundary conditions have been questioned, and alternate cycles of innovation have also been predicted and empirically supported.

The premise that competitive/innovative foci in industries shift with the emergence of widely accepted product features established the concept of a dominant design. The tight link between product and productive unit, and the rigidities associated with standardizing these, implied that new and entrenched firms would have particular innovative advantages and foreshadowed work on architectural and modular innovation and the mirroring hypothesis.

The Abernathy and Utterback model alerts managers to the trade-offs associated with design standardization and tight coupling with productive units. It has helped sensitize managers to the tendency of competitive forces and innovation patterns to move in cycles. It has encouraged them to not only match organizational processes with these cyclical demands but also to keep an eye out for discontinuous innovation, which could unleash a new cycle of innovation that destroys the advantages of established productive units.

The Abernathy and Utterback model encourages managers to attend to the patterns of innovation that characterize their industry and to understand the underlying structural drivers. As fundamental uncertainties about market demand and technology capabilities are resolved, firms’ strategic choices change. For example, process research and development and outsourcing may appear more attractive at one stage than in another. Because the specific cycles and their structural precursors differ across industries, managers will need to devise their own metrics to assess which stage their industry is in. Regardless of industry context, managers ought to appreciate core rigidities that accompany their efforts to attain greater operational efficiency and anticipate the kinds of product and process innovations that could undo their firm’s competitive advantages.

Susan Cohen, Robert Ryan, and Sean Tsuhsiang Hsu

See also Architectural Innovation; Continuous and Routinized Change; Core Competence; Punctuated Equilibrium Model; Quantum Change; Technological Discontinuities; Technology S-Curve

**Further Readings**


Patterns of Political Behavior

Although contemporary management theory has a rich diversity befitting an interdisciplinary endeavor, the beginnings of the field were dominated by a constellation of rational approaches. Early on, theories of bureaucracy, scientific management, administrative management, and rational decision making established the primary concerns of management theory. An understanding of political behavior supplements such rational approaches and provides insights into many key aspects of life in organizations. Recognition of the importance played by politics and power in organizations can certainly be traced to some of the classical organizational writings of Max Weber, Karl Marx, Robert Michels, and others. A major rediscovery of politics in organizations began during the late 1970s and the 1980s. Since then, a rich literature on political behavior in organizations has developed. A variety of definitions of political behavior have been proposed in this body of work, in some cases reflecting different levels of analysis that focus on the individual, subgroups, the organization as a whole, or interorganizational networks. Perhaps the most frequent definition of political behavior views it as those discretionary actions undertaken by members of the organization to promote group and self-interest. Thus, the non-organizationally sanctioned behavior of individuals may shape the distribution of advantages and disadvantages within an organization. The many forms that political behavior in organizations can take have provided numerous opportunities for empirical work, although the difficulties in measuring political behavior have also resulted in a good deal of work that looks at perceptions of political behavior rather than direct measures. In addition, some types of political behavior have received a great deal of attention in empirical studies, whereas other types have been largely neglected. This entry identifies the range of political behavior in organizations and reports key empirical trends. Knowledge of political behavior helps explain anomalous behaviors in routine management matters as well as extreme behaviors such as whistle-blowing.

Fundamentals

Political behavior in organizations varies along a number of dimensions. One major distinction is between political behaviors that are viewed as either legitimate or illegitimate within the organization. Even though political behavior is nonsanctioned behavior, some forms such as symbolic protests or forming coalitions may be accepted within the culture of an organization as everyday behavior, whereas other behaviors such as threats or open rebellion are viewed as going beyond acceptable behavior. A second major distinction is between political behaviors that are internal or focused within the organization such as obstructionism or reprisals and external behaviors that go outside the boundaries of the organization in an attempt to gain new resources as in contacting the media or a regulatory agency. Hierarchy is a central feature of organizations, and a third important distinction is between vertical political behaviors that involve influence processes between superiors and subordinates, such as bypassing the chain of command and mentor-protégé relationships and lateral behaviors among peers such as exchanging favors.
Over the past three decades, empirical research on political behavior in organizations has examined a wide range of organizational decision making, some unexpected. Information technology projects, often known for their delays and cost overruns, can be effectively managed through the use of non-threatening and nonpossessive political behaviors. Organizational strategic planning is coming to be understood as an area where competing objectives, preferences, and priorities are natural and legitimate. Hiring and selection interviews have also proven to be a fruitful area for inquiries into how political behavior can either improve or reduce the effectiveness of hiring decisions. Pay and promotion decisions have been studied and have led to recommendations for human resource professionals to take political behaviors into account. The role played by political behavior in the implementation of information technology has been studied. Even studies of accounting, that presumably most rational business specialty, have shown the impact of political behavior in setting accounting standards. Disputes as to what is good accounting may be settled by political processes when technical and theoretical foundations are exhausted.

In general, researchers have focused more attention on antecedents of political behavior in organizations than on the consequences of these acts. When consequences have been examined, greater attention has been paid to the impacts on the individuals who engaged in political behavior than to the consequences for the organization. This is especially true of the extensive literature on one form of political behavior, whistle-blowing. There are examples of research that has looked at the impacts of whistle-blowing on organizational policies and procedures for handling dissent, techniques for resolving disputes, management turnover, stock values, and other effects. One international study found that whistle-blowing can deter collusion and cartel formation. A much more extensive literature exists, however, on how whistle-blowers were sanctioned, often very severely, by their organizations and what impacts there were for their subsequent careers. The growth of whistleblower protections laws and the emergence of incentives for whistle-blowers have shaped scholarship both on motivations of whistle-blowers and consequences for those who blow the whistle.

Those writing about whistle-blowing range from those who see it as altruistic and prosocial to those who view it as self-serving and destructive. Such divergent views call for those who write about political behavior to be transparent about the values and ethical positions that may shape their work. It appears that, with the exception of whistle-blowing, greater attention has been paid in the scholarly literature on political behavior in organizations to legitimate rather than illegitimate forms of political behavior. Although both internal and external forms of political behavior have received a good deal of attention, lateral forms of political behavior have not received the attention paid to vertical forms. This may reflect the traditional attention paid to hierarchy in organizations, or it may reflect the consequences of research methods such as those relying on reports from supervisors.

Management is a multidisciplinary science. Managers need to understand that to be effective they must employ skills drawn from sociology and political science in addition to economics and decision sciences. Effective organizations must manage a range of political behaviors even though they may fall outside the formal organizational structure. A full understanding of management includes the recognition that many member actions are political behaviors that are often critical in determining the direction and success of the organization.

Dan Farrell and James C. Petersen

See also Conflict Handling Styles; Influence Tactics; Organizational Demography; Resource Dependence Theory; Social Exchange Theory

Further Readings


PERSONAL ENGAGEMENT (AT WORK) MODEL

The concept of personal engagement was developed to explain what traditional studies of work motivation overlooked—namely, that employees offer up different degrees and dimensions of their selves according to some internal calculus that they consciously and unconsciously make. Traditional motivation studies implicitly assume that workers are either “on” or they are “off”; that is, based on external rewards and intrinsic factors, they are either motivated to work or not, and that this is a relatively steady state that they inhabit. The engagement concept is framed on the premise that workers are more complicated. Like actors, they make choices about how much of their real selves they would bring into and use to inform their role performances. They might truly express themselves, to the extent the role allowed, or they might not, with degrees in between. Rather than label workers as motivated or unmotivated, these personal movements into or out of role performances change a great deal as various conditions shift. The concept of personal engagement at work captures that process. This entry defines personal engagement and its contributing psychological conditions.

Fundamentals

Personal engagement is the harnessing of organization members' selves to their work roles. Personally engaged workers employ and express their selves physically, cognitively, and emotionally during role performances. The combination of employing and expressing one's preferred self yields behaviors that bring alive the relation of self-in-role. To personally engage is to keep one's self within the role, without sacrificing one for the other. Self and role exist in some dynamic, negotiable relation in which the person both drives personal energies into role behaviors (self-employment) and displays the self within the role (self-expression). In contrast, personal disengagement involves the uncoupling of people's selves from their work role performances; people withdraw and defend their selves during role performances. People thus remove their own, internal energies from physical, cognitive, and emotional labors. Their behaviors display an evacuation or suppression of their expressive and energetic selves in discharging role obligations. Role demands guide task behaviors, without an interplay between internal thoughts and feelings and external requirements. Tasks are performed at some distance from people's preferred selves, which remain split off and hidden. People thus become physically uninvolved in tasks, cognitively automatic or unvigilant, and emotionally disconnected from others in ways that hide what they think and feel, their creativity, their beliefs and values, and their personal connections to others.

Three psychological conditions influence how much people personally engage at any moment in time. These conditions are powerful enough to survive the gamut of individual differences. They are momentary rather than static conditions of people's experiences that shape behaviors. Like conditions in contracts, if they are met to some acceptable degree, people will personally engage in moments of task behaviors; if they are not met, people will personally disengage.

The three psychological conditions are meaningfulness, safety, and availability. Together, the three conditions shape how people inhabit their roles. It is as if organization members ask themselves (though not consciously) three questions in each situation and personally engage or disengage depending on the answers: (1) How meaningful is it for me to bring myself into this performance? (2) How safe is it to do so? (3) How available am I to do so? The answers to these questions are shaped by particular factors.

Psychological meaningfulness is feeling a return on investments of one's self made in the currencies of physical, cognitive, or emotional energies. People experience such meaningfulness when they feel worthwhile, useful, and valuable—as though they make a difference and are not taken for granted. They feel able to give themselves to others and to their work. The lack of meaningfulness is connected to feeling that little is asked or expected of one's self, and that there is little room to give or to receive in work role performances. Psychological meaningfulness is correlated with work that is challenging, allows variety and creativity, is clearly delineated, and allows for autonomy. It is also shaped by the extent to which people are able to wield influence, occupy valuable positions in their systems, and gain desirable status. Meaningfulness is also higher when task performances involve interpersonal interactions.
with co-workers or clients that promote dignity, self-appreciation, and a sense of worthwhileness.

Psychological safety is feeling able to show and employ one’s self without fear of negative consequences to self-image, status or career. Psychological safety is heightened by relationships that are supportive and trusting, marked by the absence of threat that enable people to try and to fail without fearing the consequences. Group dynamics also shape the extent to which organizational members take on “characters” in groups associated with relative degrees of respect and authority. Psychological safety is heightened by leaders that are supportive and resilient, allowing people to try and to fail without fearing the consequences—which in turn create systemic norms that encourage or discourage self-disclosure.

Psychological availability occurs when people have the physical, emotional, or psychological resources to personally engage at particular points in time. It is a readiness statistic of how available people are amidst distractions. People are more or less available to place their selves fully into role performances: personal engagement requires physical, cognitive and emotional resources that may or may not be scarce, given the competing demands of other aspects of people’s work and nonwork lives. These psychological conditions shape the extent to which workers are able and willing to personally engage—and thus become psychologically present—in performing specific tasks and roles.

The theory of personal engagement offers managers a diagnostic tool by which to analyze workers’ efforts, energies and involvements in their roles. Rather than make certain assumptions about workers’ personality dimensions, managers can use the theory to identify the conditions that influence workers’ engagements. Through informal conversations, surveys, performance reviews, and other opportunities for dialogue and assessment, managers can assess the extent to which workers’ role engagements are affected by influences on how meaningful they find those roles, how safe they feel in expressing themselves in role performances, and how available they are to fully engage in those performances. Effective managers look carefully for such influences and use their own influence and authority to enhance the conditions necessary for their workers’ engagements.

See also Job Characteristics Theory; Leadership Practices; Role Theory; Self-Concept and Theory of the Self; Social Identity Theory

Further Readings


Organizational Scholarship. The volume helped introduce positive organizational scholarship (POS) as a lens for understanding the conditions and processes that explain flourishing in organizational contexts. Since then, a POS lens has enriched organizational studies by expanding the range of topics and constructs seen as valuable and legitimate within organizational behavior and organizational theory. POS helps us see new possibilities for organizational studies; it helps move constructs and ideas that are often in the background, or even invisible, to the foreground. This entry articulates what POS is, what topics fall within the domain of POS, and why management scholars should care about POS.

Fundamentals

POS is just one of several “cousin” movements in the social sciences. Alongside POS, positive psychologists (led by Martin Seligman) have advocated that psychology needs to move beyond treating mental illness to also focus on the conditions that enable people to flourish in their lives. In addition, positive organizational behavior (POB; led by Fred Luthans) has applied positive psychology to the workplace, focusing on the application of positively oriented human resource strengths and psychological capacities for performance improvement at work. Finally, in the field of organizational development, appreciative inquiry (developed by David Cooperrider) focused on what is working in any system rather than what is not working as a core method for positive change.

The O in POS refers to investigating positive processes and states that occur in association with organizational contexts. It examines positive phenomena within organizations and among organizations, as well as positive organizational contexts. This extends beyond the largely individual focus of positive psychology and even POB. The S in POS emphasizes pursuing rigorous, systematic, and theory-based foundations for positive phenomena. POS requires careful definitions of terms, a rationale for prescriptions and recommendations, consistency with scientific procedures in drawing conclusions, a theoretical rationale, and grounding in previous scholarly work. The P in POS refers to at least four different facets of positive, as articulated in the Oxford Handbook of Positive Organizational Scholarship:

- A unique lens or an alternative perspective. Challenges and obstacles are reinterpreted as opportunities and strength-building experiences rather than tragedies or problems. While adopting a POS lens means that adversities and difficulties reside as much in the domain of POS as do successes, a positive lens focuses attention on the good that can come from difficult situations.
- A focus on extraordinarily positive outcomes or positively deviant performance. POS focused on outcomes that dramatically exceed common or expected performance. This definition of positive focuses on identifying and explaining spectacular results, surprising outcomes, and extraordinary achievements that inspire people and organizations to aim higher.
- An affirmative bias that fosters resourcefulness. Positivity can involve unlocking latent resources in individuals, groups, and organizations so that capabilities are broadened and capacity is built and strengthened. This resourcefulness means that individuals and organizations generate, grow, and discover new resources in the doing of work.
- The examination of virtuousness or the best of the human condition. POS assumes that individuals are attracted to the highest aspirations of humankind. All societies and cultures possess catalogs of traits that they deem virtuous, that represent what is morally good, and that define the highest aspirations of human beings. POS seeks to understand the how virtues play out in organizational life.

These four facets of positive articulate the blossoming of different approaches and perspectives that flourish within the domain of POS. The next section describes the substantive core of the domain of POS.

What Falls Within the Domain of POS?

As described earlier, POS is a lens for understanding the conditions and processes that explain flourishing in organizational contexts. To provide a flavor of the kinds of topics and constructs that fit within the domain of POS, we draw on the key categories and topics covered in the Oxford Handbook of Positive Organizational Scholarship. While these do not cover the entire conceptual landscape of POS, they represent a good sampling of significant subjects
in this field of study. They cut across different levels of analysis—from individual-level topics to organization- and societal-level topics. The nine categories and their embedded topics include the following:

- **Positive individual attributes.** These include psychological capital, prosocial motivation, calling at work, work engagement, positive identity, proactivity, creativity, curiosity, and positive traits.
- **Positive emotions.** Topics addressed include positive energy, subjective well-being, passion, and socioemotional intelligence.
- **Strengths and virtues.** A wide variety of virtues have been proposed as being universal and include, among others, forgiveness, humility, compassion, hope, courage, justice, and integrity.
- **Positive relationships.** Addressing relationships in both temporary encounters and long-term relationships between people, these topics include high-quality connections, relational coordination, reciprocity, intimacy, civility, trust, humor, and psychological safety.
- **Positive human resource practices.** These topics are most pertinent to the effective workings of organizations and include career development, mentoring, socialization, diversity, communication, conflict resolution, negotiating, and work-family dynamics.
- **Positive organizational processes.** These organizational features and dynamics include the design of work, mindful organizing, ambivalence, organizational identity, and innovation.
- **Positive leadership and change.** The topics include organizational development, appreciative inquiry, positive change attributes, authentic leadership, leadership development, and strategic change.
- **A positive lens for seeing the good that can come from problems and challenges.** POS also includes the positive dynamics that can arise from negative phenomena, including healing after trauma, responding to crisis, resilience under adversity, and posttraumatic growth.

These topics reflect but a sampling of the core topics and themes that constitute the core of POS. In the next section, the entry lays out some of the mechanisms that explain how and why POS matters.

**What Theoretical Mechanisms Explain POS?**

POS seeks to be driven by strong theoretical foundations. To this end, POS articulates a variety of generative mechanisms to explain the how and why of how “positive” organizational constructs produce key outcomes. Generative captures the mechanisms in particular that are life building, capability enhancing, and capacity creating. As articulated in the POS handbook, POS scholars tend to draw on five sets of mechanisms to set a secure foundation for their conceptual ideas. Cognitive mechanisms such as meaning making, identity, learning, and sensemaking operate through changes in how people become aware, know, think, learn, and judge. Affective mechanisms such as the broaden-and-build theory operate through changes that evoke or elicit individual or collective feelings. Relational mechanisms such as relational coordination, laterality, and mindful organizing operate through changes in the connections among people and groups. Agentic mechanisms such as proactivity, endogenous resourcefulness, and participation operate through changes in how people interpret their relationship with their environment in terms of what they can do. Finally, structural mechanisms such as institutionalized practices, systems, and structures operate through routines and leadership. These theoretical mechanisms are important because they flesh out the theoretical underpinnings of POS.

**Importance**

POS research has been conducted using diverse methods, including rich, descriptive qualitative research as well as rigorous, large-sample quantitative research. POS theories draw from related disciplines, including psychology, sociology, social work, and medicine. As evidenced in the *Oxford Handbook of Positive Organizational Scholarship,* POS constructs and dynamics have been empirically linked to a variety of outcomes relevant to management research. One cluster of outcomes is *individual flourishing and well-being.* These kinds of outcomes capture what psychologist Martin Seligman refers to as the “pleasant life”—a life that successfully pursues positive emotions about the present, past, and future. A second cluster of outcomes is inherent to what Seligman refers to as the “meaningful life”—*personal fulfillment* through a life worth living. Here, research focuses on how individuals take
actions to “craft” more meaning into their work life and also how organizations can provide opportunities for individuals to find their purpose and to make a contribution. A third cluster of outcomes focuses on exemplary performance, whether at the individual, team, or organizational level. A fourth cluster of outcomes deals with adaptation and learning. Here, researchers are interested in how organizations build their agility/flexibility for more innovation, creativity, resilience, and personal growth. Finally, a fifth cluster of outcomes focus on the long-term sustainability of people, organizations, society, and the environment. Sustainability can be defined as ensuring that our ecosystem supports life over time; it includes efforts to preserve, conserve, renew, and generate resources to support life. So POS not only explains more traditional outcomes, such as well-being and performance, but also outcomes that indicate longer term impact, such as adaptation and sustainability over time. In this way, a POS lens helps address a broad array of outcomes.

POS has also been embraced in the world of practice by those seeking to create more positive workplaces, units, and organizations. Practitioners have found that their organizations can improve only so much through a problem-solving lens that seeks to move the organization to address its deficit and gaps. In contrast, a POS approach seeks to inspire change by creating resourcefulness that creates, unlocks, and multiplies latent resource to build new possibilities. A POS approach creates positive spirals and buffers against countervailing forces to propel the organization in a more positive direction. These ideas are at the core of practice-based interventions such as appreciative inquiry. Practitioners and coaches using a POS lens have transformed organizations and individuals in health care, financial services, and retail industries—all realms where human capital is particularly critical to organizational success.

POS has also been embraced by teachers at undergraduate, graduate, and executive levels. Syllabi for POS courses and modules are available at the POS website. And teaching tools, including videos and cases as well as assessments (such as the Reflected Best Self) and exercises (such as the Job Crafting exercise) have been used by management teachers around the world. These help students, managers, and executives better understand how to leverage their unique strengths (rather than just their developmental opportunities), how to stay resilient in the face of crisis or challenges, and how to develop high-quality relationships even with those who initially seem difficult.

Gretchen Spreitzer

See also High-Performance Work Systems; Humanistic Management; Personal Engagement (at Work) Model; Servant Leadership

Further Readings

Practice of Management, The

Peter Drucker’s 1954 book The Practice of Management was a landmark achievement. It codified into a discipline the practice of management so that it could be taught and learned systematically by executives and students. Building on existing knowledge in the scientific method of management in manufacturing, industrial psychology and sociology, human relations and worker motivation, organization and administration, and managerial economics, Drucker added concepts relating to the structure of top management, organizational decentralization, management by objectives, and business policy and created an integrated configuration focusing on the work of the manager. The Practice of Management was written soon after Drucker’s 18-month study,
during 1944 and 1945, of the structure and policies of the General Motors Corporation, published in 1946 as Concept of the Corporation. The remainder of this entry clarifies these contributions and shows their relevance to Drucker’s life’s project and to the central role of the practice of management.

**Fundamentals**

In response to a request from the then-dean of the Peter F. Drucker Graduate School of Management at Claremont Graduate University, Drucker provided a carefully worded document: “What do I consider my most important contribution?” This document is reproduced below exactly as written by Peter Drucker on January 18, 1999, at the age of 89.

- That I early on—almost sixty years ago—realized that MANAGEMENT has become the constitutive organ and function of the Society of Organizations;
- That MANAGEMENT is not “Business Management”—though it first attained attention in business—but the governing organ of ALL institutions of Modern Society;
- That I established the study of MANAGEMENT as a DISCIPLINE in its own right;
- That I focused this discipline on People and Power; on Values, Structure and Constitution; AND ABOVE ALL ON THE RESPONSIBILITIES—that is focused the Discipline of Management on Management as a truly LIBERAL ART.

**The Practice of Management**

*The Practice of Management* contains what Drucker called “the constitutionalist approach” to governance in the 1990 reissue of Alfred P. Sloan’s 1963 book, *My Years With General Motors*, as opposed to the “character and moral principles of the leader,” the approach Drucker called “the education of the prince.” Managing a business was first and foremost a task of satisfying the customer—the customer was the business for Drucker. And for this purpose he fashioned the theory of the business, first in *The Practice of Management* and then more fully in his September-October 1994 *Harvard Business Review* article.

Drucker, in “The Theory of the Business,” always asks the same three questions: What is our business? Who is our customer? And what does the customer consider value? He asks them in different ways with multiple extensions, but he is trying always to get at the same thing. He asks these questions both for profit and nonprofit businesses and for personal and work situations. To answer these questions, one needs a good deal of information about the specific market environment, including information on demographics, technology, government, the economy, and competition. And a theory of the business is merely a hypothesis about the way an organization intends to create value for its customers. It has to be tested against reality; if it does not produce expected results, it must be altered. So there is always the innovation question, “What should our theory of the business be?”

**Innovation and entrepreneurship.** Drucker’s master project was to help executives manage discontinuities using the dual processes of continuity and change. He fully adopted Joseph Schumpeter’s view of the entrepreneur as the economic agent in capitalism, who seeks profit or economic rent through the process of innovation. And profit in turn becomes the means whereby the entrepreneur is able to continue his or her innovative activity. Because of the discontinuities caused by innovation, which Schumpeter called the process of “creative destruction,” profit became to Drucker a moral force for stimulating innovation and for maintaining continuity in society. But to eliminate the discontinuities caused by major innovations, Drucker proposed in his 1985 seminal book, *Innovation and Entrepreneurship*, seven windows or sources of potential innovation opportunities whereby each organization in society may engage in systematic, continuous innovation to eliminate or minimize the disruptive effects of the process of creative destruction. He also put forth policies and strategies that should be followed to institutionalize innovation within the management structure of all organizations.

**Social impacts and social responsibilities.** Drucker’s purpose was to create a society of functioning organizations so there would be no temptation to succumb to the appeals of dictators who promise to solve society’s problems only to subsequently make citizens live in bondage, misery, and fear. To create a society of functioning organizations, a nation needs a cadre of professional managers, especially those who
care about the negative impacts their actions could create on society. While the business sector is the first sector in the sense that it must create the wealth for all other sectors to grow and prosper, for the society to be a healthy one, its businesses must seek as objectives the elimination of any negative impacts. In addition, after meeting its primary mission, executives should support public efforts to build society through volunteerism and financial support.

The spirit of performance. The primary objective of Drucker’s model is to create an organization with a high spirit of performance, and this can be done only in what Drucker calls the “moral realm.” Why? Because it requires that an organization overcome natural entropic forces that human organizations display toward deterioration and decay. Thus, in *The Practice of Management*, he states:

The purpose of an organization is to “make common men do uncommon things.” . . . it is the test of an organization that it make ordinary human beings perform better than they are capable of, that it bring out whatever strength there is in its members and use it to make all other members perform better and better. It is the test of an organization that it neutralize the weaknesses of its members. (pp. 144–145)

An organization high in spirit of performance is one that is led by executives who are committed to doing the right thing (efficiency) and to getting the right things done (effectiveness). These executives possess integrity of character, have a vision for the purpose of their organization, focus on opportunities, are change leaders, and follow essential tasks, responsibilities, and practices of management.

System for the Practice of Management

Each element of Drucker’s system for the practice of management is presented in context in Figure 1 below. We observe from Figure 1 that the practice of management has many centers and the elements are interrelated. One could say that the practice of management is a polycentric configuration of related elements that should be viewed as a whole to appreciate the role and function of each part.

Evolution

Born in Vienna, Austria, on November 19, 1909, Peter Drucker was educated at the University of Frankfurt where in 1932 he earned his JD in international and public law. The prestigious publishing house, J. C. B. Mohr in Tübingen, Germany, published his first monograph, *Frederick Julius Stahl: His Conservative Theory of the State* in April 1933. Stahl was a German legal philosopher at the University of Berlin and a parliamentarian. Stahl studied and wrote about governmental institutions and sought to describe and promote a society of institutions able to achieve a balance between continuity and change. This balance between continuity and change, as a remedy for radical discontinuity in turbulent times, became a recurring theme in Drucker’s work, and the practice of management was the vehicle Drucker codified and elaborated to minimize disruptions during turbulent times for the benefit of society. The Nazis banned Drucker’s monograph immediately upon its publication. The monograph was translated much later into English by Martin M. Chemers and published in 2002. Foreseeing the future of Germany under Hitler from this and other events, Drucker left for London in 1933 where he worked as a journalist and investment-banking analyst. He married Doris Schmitz in London in 1937, whom he first met in Frankfurt. They moved to the United States in that same year.

In 1939, Drucker published his first major book, *The End of Economic Man*, an exposition of the failure of “Economic Man” as the basis for organizing society’s institutions and as an explanation for the masses turning to the dictators of totalitarian Europe—Hitler in Germany, Stalin in Russia, and Mussolini in Italy—to relieve them of their despair when Economic Man failed to deliver on its promises. Winston Churchill thought enough of the book to review it for *The London Times Literary Supplement* and to make it required reading for his officers. Churchill was very much like Drucker in “seeing the future that had already happened.” He saw that the appeasement of Adolf Hitler by British Prime Minister Neville Chamberlain in the Munich agreement of 1938 would never produce peace and warned of the imminence of war with Germany. In his review of the book, published in *The London Times Literary Supplement* on May 27, 1939, Churchill said,

Mr. Drucker is one of those writers to whom almost anything can be forgiven because he not only has a mind of his own, but has the gift of starting other
minds along a stimulating line of thought. . . . [He has written] a book that successfully links the dictatorships which are outstanding in contemporary life with that absence of a working philosophy which is equally outstanding in contemporary thought. (p. 306)

The Ultimate Case Study

For 18 months beginning in January 1943, Drucker had an opportunity that made an important impact on his thinking about industrial society, organizations, and individuals. Donaldson Brown, then an assistant to General Motors chairman Alfred Sloan, invited him to study the structure and policies of the company. Donaldson Brown’s invitation came as a result of his reading Drucker’s second major book, The Future of Industrial Man, published in 1942, in which Drucker describes the requirements of a functioning society in general with particular application to the emerging industrial societies.

The General Motors project eventually led to Drucker’s first major management book, The Concept of the Corporation, published in 1946 and reissued in 1990. Drucker believed the book was “the first study of management as a discipline, the first study of a big corporation from within, of its constitutional principles, of its structure, its basic relationships, its strategies and policies” (p. v). In this book, Drucker saw that a relatively new institution—the modern corporation—was going to have a major impact on society. Writing from the vantage point of society, a premise of the book is “what is good for America must be made good for General Motors.” And while Sloan and the executives of General Motors thought Drucker’s advice too radical, the book had a major influence on other industrial organizations throughout the world.

Sloan, a genuinely warm human being, was known as a brilliant and effective executive and
organizational architect. He served as a mentor to Drucker. During Drucker’s study period at GM, Sloan invited him to many management meetings in both Detroit and New York. After each one, Drucker debriefed himself as to why Sloan did what he did.

Drucker analyzed the new decentralized management structure of General Motors using concepts that were influential in creating the Constitution of the United States, especially federalism with its emphasis on states’ rights, a strong chief executive, and checks and balances on power and authority. General Motors was formed as a union of separate companies—Chevrolet, Pontiac, Buick, Cadillac, and so on—that had to be brought together just as the 13 original U.S. colonies were brought together by the U.S. Constitution. Sloan chose decentralization as the organizational principle and granted autonomy to each company (division) while maintaining central control. Drucker saw that this resembled the concepts contained in the Federalist Papers, 85 essays written by Alexander Hamilton, James Madison, and John Jay in 1787 and 1788 promoting the ratification of the U.S. Constitution and supporting the design of national and state governments, including an executive, legislative, and judicial function. Drucker labeled the organization structure designed by Sloan as “federal decentralization” because of its attempt to balance decentralized operations (each company or division) with central control (the office of the chief executive). Each company managed itself autonomously, although certain policies and decisions were reserved for top management (central control). GM was thus a study in “structure and constitution,” dealing with the pervasive issues in organizations of the distribution of power and authority.

Ultimately, when Drucker’s book was ready to be published, the company didn’t know what to make of it. Among his recommendations was that GM should go even further in decentralization. In a letter to Sloan transmitting the book, he called for GM to break up its largest division—Chevrolet—so that both Chevrolet and the General Motors Corporation could compete with each other, forcing each other to improve and innovate, while solving General Motors’ antitrust problem that came about because of its control of over 50% of the automobile market in the United States. Drucker’s analysis proved completely correct in hindsight. However, the company did not adopt his ideas.

Nevertheless, it was evident that Drucker was well on his way to defining the study of the practice of management. He perceived in the “corporation” a new and major institution of society that was developing rapidly and was worthy of study. The corporation simply could not be ignored because of its impact on the lives of people and society. And this new social institution needed to be integrated with the interests of the individual on the one hand and the state on the other to promote a functioning society of organizations.

In the early 1950s, Drucker worked extensively with the General Electric Company and its vice president, Harold Smiddy, and CEO, Ralph Cordiner. At the end of the Korean War, GE anticipated that the move from wartime to peacetime would set off explosive growth in consumer demand. The question was how could GE best take advantage of that growth? The answer was through the federal decentralization that Drucker explored at General Motors—implementing it across GE’s departments. That’s what GE did, and GE grew. Almost every GE CEO since Cordiner had some contact with Peter Drucker, including Jack Welch.

Drucker’s classic 1954 book The Practice of Management grew out of his work with the General Electric Company. Drucker even called Harold Smiddy the godfather of the book in the preface of the original hardcover volume. This is the book where Drucker codifies the nuts and bolts of the discipline and practice of management.

Importance

At the time of his death, the contributions of Peter Drucker’s ideas to the practice of management were extolled worldwide across multiple media, including by John Byrne in a 2005 Business Week article. Here, management titans commented on his impact: Jack Welch—“The world knows he was the greatest management thinker of the last century”; Tom Peters—“He was the creator and inventor of modern management”; Andrew Grove—“Statements from him have influenced untold numbers of daily actions; they did mine over decades.” Byrne adds to this that “What John Maynard Keynes is to economics or W. Edwards Deming to quality, Drucker is to management,” citing contributions to areas such as decentralization, human resources, social responsibility, knowledge workers, the corporation
as a human community, leadership practices, and the importance of a customer focus.

Drucker considered the practice of management to be among the most significant innovations of the 20th century in the United States, Germany, and Japan. In his final public interview, on December 8, 2004, with Tom Ashbrook of National Public Radio, Drucker commented,

Management is a new social function that has made possible a society of organizations. And while business management was the first one to emerge, it is not the most important one. The most important ones are the management of non-businesses, which made possible a developed society—hospitals, universities, churches. They are also the more interesting ones because they have to define what they mean by results. In a business, profit and loss determines what is meant by results. You asked me, how do you define results of that large church I am working with which has grown from 500 to 6,000 members? What are results of Claremont Graduate University? These are questions that are much more important and much more difficult and much more interesting. (http://onpoint.wbur.org/2004/12/08/management-guru-peter-drucker)

In summary, management as a theoretical discipline and specifically management as a practice is one of the fundamental social innovations of modern times because it has made possible a society of functioning organizations. Peter Drucker, as its innovator and chief expounder, is therefore not only one of its most important contributors but one of the most important innovators of the 20th century.

Joseph A. Maciariello

See also Core Competence; Corporate Social Responsibility; Knowledge Workers; Management (Education) as Practice; Management by Objectives; Organizational Structure and Design; Stages of Innovation; Technological Discontinuities; “Unstructured” Decision Making

Further Readings


Principled Negotiation

Principled negotiation, a term originally proposed by Roger Fisher and William Ury, generally applies to the process that negotiators employ to achieve win-win or value-creating agreements. Principled negotiation, however, is not a term common to the general parlance among those who conduct academic research on negotiation. Those authors might use other terms to describe the principled approach, such as integrative negotiation or problem-solving negotiation. And an entry on “principled” negotiation suggests that there is such a thing as “unprincipled” negotiation, which implies an approach in which negotiators do not subscribe to commonly accepted standards of fair treatment, respect for the other parties, honorable conduct, and willingness to stand by agreements and commitments made during negotiation. In the research literature on negotiation, this process has more typically been called distributive bargaining, competitive bargaining, or win-lose bargaining.

When applied to negotiation, the term principled refers to an underlying ethical orientation in one’s approach. But the distinction between principled and unprincipled negotiation may not be as clean and transparent as the reader might wish. It may
not be that some negotiators are unprincipled but instead that they subscribe to a different set of principles! Advocates of the more unprincipled views most likely subscribe to a teleological view of ethics; this view generally holds that the moral worth of a behavior is best judged by its consequences. The more extreme view of the teleological view is called egoism, in which acceptable behavior is judged based on its consequences for the self, while less extreme views are defined as utilitarianism, in which acceptable behavior is judged based on the best consequences for the greatest number. These are further explained in the writings of philosophers John Stuart Mill and Jeremy Bentham. In contrast, principled negotiators tend to subscribe to different sets of ethical principles, generally called deontology, which advocates that there are clear standards of right and wrong and that all individuals deserve minimal standards of respect, or virtue ethics, which stresses adherence to a clear set of moral virtues on how one should treat others, such as standards of truthfulness, honesty, and fairness. These are further explained in the writings of philosophers Immanuel Kant and Jean-Jacques Rousseau. Thus, it is not that some negotiators are unprincipled; instead, they most likely subscribe to ethical principles that advocate self-gratification and the acceptability of pursuing those outcomes regardless of the costs and consequences. Principled negotiation is certainly a topic that is central to the practice of management. Managers negotiate all the time—with coworkers, subordinates, bosses, salesmen, purchasing agents, labor unions, financial institutions, and others. While the early theory on negotiation was generally restricted to labor relations and purchasing, the last two to three decades has seen a strong emergence—in research and teaching—of negotiation as a critical skill, part of a larger portfolio of skills related to managing organizational conflict and maintaining productive interpersonal and intergroup relations with others. This entry describes the fundamental nature of principled negotiation and the principled negotiation process. It discusses the relevant theory and research that support this process as well as the nature of the strategy and tactics used to execute a principled negotiation. In doing so, comparisons will inevitably be drawn to the more competitive, distributive negotiation strategy and tactics. Next, the entry shows how the theory has evolved and how some of the tactics often associated with unprincipled negotiation can become entangled in the principled negotiation process. Finally, the entry suggests some ways that a principled negotiator can convert his or her competitive opponent to a more principled process.

Fundamentals
The essence of principled negotiation, as it distinguishes itself from “unprincipled” negotiation, is inherent in the very nature and dynamics of negotiation itself. Assume a common definition of negotiation proposed by negotiation researcher Dean Pruitt in 1981: “a form of decision making in which two or more parties talk with one another in an effort to resolve their opposing interests” (p. xi). For each party to maximize what he or she receives in that decision-making conversation, each attempts to persuade the other to “see it my way.” Persuasion processes involve the sharing and positioning of information to convince the other, and negotiators are likely to use and present that information in a way that puts their interests, desires, and needs in the best possible light. Positioning this information may often lead negotiators to exaggerate their perspective of their own needs and desires, inflate the strengths of their own position, mislead the other through the selective inclusion or exclusion of critical facts, all while not being fully honest and transparent about the weaknesses of their own position. In fact, since each negotiator expects a series of exchanges in which the parties will attempt to resolve their conflicting interests, all negotiators must implicitly resolve two fundamental dilemmas: how honest to be for the amount for which they are willing to settle (which is likely to be less than their original requests) and how much to believe or trust what the other is telling them. On the first dilemma, negotiators realize that if they are fully honest and transparent about their minimum needs, the other party may go no further than to meet those minimum needs (or even attempt a resolution below that minimum), but if they exaggerate and inflate too much, achieving resolution of those conflicting interests may be impossible. Similarly, if a negotiator trusts the other completely, he or she may be caught up in the other’s exaggerations and inflations, but not to trust the other may also preclude achieving an effective resolution. Thus, achieving a fully principled negotiation requires parties to not only share
a compatible ethical ideology but also to successfully navigate the dilemmas of trust and honesty that lead them to a productive agreement.

Working from the context of negotiation in international relations and the law, Fisher and Ury first introduced the term *principled negotiation* in the early 1980s. The work was originally not considered to be a contribution to management theory because it was not visibly grounded in microeconomic or psychological theory, contained no citations or footnotes, and was far more prescriptive since it was directed toward negotiation practitioners. The authors proposed an antithesis to the problems and dangers of “hard” (positional or distributive) bargaining: They stressed that the solution was not “soft” negotiation (where parties often sacrificed gains to protect a good relationship with the other party) but instead principled negotiation. Principled negotiation, they argued, had five major components:

1. Pursue the goal of a wise outcome that is reached efficiently and amicably with the other party.
2. Separate the people from the problem (be nice to the people but still be tough on finding an acceptable solution to the bargaining problem).
3. Focus on interests, not positions—move beyond positions to the underlying needs and motives.
4. Invent options for mutual gain—arrive at multiple possible settlements and choose later.
5. Insist on using objective criteria to choose among alternatives, based on what is fair, reasonable, and right.

Fisher and Ury also introduced the term *BATNA*—best alternative to a negotiated agreement—suggesting that deals should be evaluated less on arbitrary walkaway points and more on how the proposed deal compares to other deals the negotiator could strike. They also suggested ways for principled negotiators to deal with more traditional distributive bargainers, advice that again was pioneering relative to available research support. While some researchers began to recognize the important grounding and application of these principles for research on negotiation, it took almost two decades for Fisher and Ury’s fundamental model to be tested in rigorous research and for the theory to be interwoven with the more traditional integrative approach described by Robert McKersie, Richard Walton, Pruitt, and others. Since that time, a wealth of research has examined the strategic, tactical, and contextual elements that serve to promote or inhibit principled negotiation processes.

**Evolution**

In its infancy, the study of negotiation focused on outcomes and not processes, and thus ethical principles were not a central consideration of the exchange. Early writing on negotiation was dominantly in the context of understanding labor relations or international diplomacy. These works approached negotiation as a process heavily shaped by the contexts in which it occurred. During the 1960s, the focus fundamentally changed to an increased attention on negotiation processes across contexts through the contributions of economics, game theory, psychology, and social psychology. For example, the distinction between intrapersonal and interpersonal systems in negotiation was raised by Howard Raiffa. Intrapersonal systems focused on a negotiator’s behavior as it relates to his or her own perceptions and experiences, while interpersonal systems focused on a negotiator’s behavior and how it may change in the presence of others. Raiffa and colleagues also translated principles of microeconomics and decision making to the dynamics of behavior in conflict. Walton and McKersie shifted the platform of labor relations from cases and grounded descriptions to the now-classic distinction between distributive and integrative negotiation. Finally, Morton Deutsch combined the tools of game theory with the understanding of human behavior in conflict into the research laboratory, and Jeffrey Rubin and Bert Brown integrated the extensive social psychological research on two-person bargaining behavior.

The fundamental foundation of principled negotiation rests in groundwork laid by Walton and McKersie and Pruitt. Through their observations of the processes being used in multiple labor negotiations but using the language of psychology and microeconomics, Walton and McKersie identified four types of negotiation: distributive bargaining, integrative bargaining, attitudinal restructuring, and intraorganizational bargaining. The authors addressed the fundamental strategy and tactics
of each and also discussed the dilemmas of each approach. The first two—distributive and integrative bargaining—gained the most immediate attention in the emerging negotiation literature. Distributive bargaining was described as the dynamics of two or more parties working inside some defined settlement range, characterized by opening bids (what the parties initially proposed), target points (where the parties hoped to settle), and resistance points (the negotiator’s minimally acceptable deal). Behavior was characterized by negotiators evaluating the utility of each possible settlement point compared to alternative settlements, and the discussion of tactics focused on the use of threats, commitments, and credibility. Some allusion was made to the appropriateness of these tactics, but not to the propriety. In contrast, integrative negotiation was described as a more classical problem-solving process. Parties were described as identifying the problem, searching for alternative solutions, and selecting the optimal solution from viable alternatives. Dilemmas were identified in terms of (a) processes for finding the optimal solution and (b) dynamics that occurred when one party wanted to approach a problem distributively and the other integratively. In the early 1980s, Pruitt elaborated on Walton and McKersie’s integrative bargaining approach, tying it back more strongly to choice-optimizing behavior rather than a problem-solving model and expanding our understanding of the range of tactics available to integrative negotiators. After Pruitt’s work, Fisher and Ury introduced principled negotiation, building from the characteristics of integrative bargaining.

Importance

By and large the strategy and tactics of the principled negotiation approach has been supported by the research, both descriptively and prescriptively. Writing in the preface to the 2011 third edition of Getting to Yes, authors Fisher, Ury, and Patton note the dramatic revolution in both negotiation research and in informed practice over the 30 years since the first edition was published. The approach also spawned a major research and teaching initiative among the professional schools at Harvard University and other university-based dispute resolution centers. Principled negotiation is a core component of negotiation courses taught to business, law, government, public administration, and other professional school students in universities around the world. Executive education programs for managers at all levels traditionally feature training in the principled negotiation approach. But in spite of the incredibly powerful and thorough dissemination of this approach, it is clear that much work remains. Negotiators in a variety of venues and contexts—including sales, purchasing, and labor relations—still negotiate distributively. Negotiators and their institutions continue to embrace competitive motives that favor maximizing self-interest and the associated distributive strategy and tactics that accompany these motives. While distributive bargaining has its time and place, negotiators must weigh the expense of destroying their trustworthiness and credibility over the long term.

For a principled negotiation to be effective, certain conditions must exist prior to the start of the negotiation. First, the parties must be motivated and willing to work together to achieve some common goal. In his work, Pruitt explained that there are four different strategies negotiators can adopt: they can problem solve, contend, yield, or take no action. Whereas contending (i.e., a competitive orientation) may be too tough a negotiating style for integrative negotiation and yielding (accommodating to the other) may be too weak, joint problem solving requires both parties to take an active role in working toward a solution. Second, as introduced by Roger Mayer, James Davis, and F. David Schoorman in 1995, there must be some degree of trust between the parties regarding the trustee’s abilities, benevolence, and integrity. That is, the parties must believe that their opponent (a) is competent in executing the techniques of negotiation, (b) does not have the intention of harming the other, and (c) adheres to some set of basic ethical guidelines. Speaking to competence specifically, when negotiators have been trained in and understand integrative negotiation, they are more likely to reach higher joint outcomes. But it is the second and third aspects of trust that can differ the most between distributive and integrative negotiation. In a distributive negotiation, the parties are far less likely to trust one another—either because they believe that the other will not act benevolently or because the negotiator himself or herself intends to use whatever tactics may be appropriate to gain advantage and be successful. Furthermore, although each negotiator may have integrity and adhere to a standard of ethics outside a
negotiation, the negotiation context alters the framework by which ethical actions are judged. But in a principled negotiation, parties must be sensitive to the possible destructive nature of negotiation and still maintain a personal level of integrity.

The key to a principled negotiation is that both parties can achieve their goals simultaneously; that is, the parties’ goals are not mutually exclusive. With this in mind, it is imperative that negotiators signal their principled intentions to the other party, affirm the intentions of the other party, and pay attention to managing not only the process of the negotiation but also the context in which it occurs. By doing this, value can be created in the negotiation so that when the distributive mind-set of claiming value becomes necessary, the increased value can work to satisfy both parties’ goals.

Fisher and Ury emphasize that focusing on interests, not positions, is crucial to the process of a principled negotiation and ultimately a win-win outcome. Furthermore, recognizing the types of interests at play is important. David Lax and James Sebenius specified the different types of interests seen in negotiations: substantive interests, or interests about the central issues of the negotiation; process interests, or interests regarding how to go about negotiating; relationship interests, or interests concerning the importance of the association after the negotiation; or interests in principle, or interests pertaining to the ethicality of negotiation. These different types of interests exist simultaneously, and some may be more important to one negotiator than the other. Thus, protecting one’s own interests while working to understand another’s interests, all while watching for changing interests, requires both alertness and sensitivity.

Part of “expanding the pie” in principled negotiation requires the invention or generation of solutions. The first step here is to gather information to see what is possible, which may require an action as simple as brainstorming or a more lengthy survey collection. Once data have been gathered, solutions to the problem(s) can be generated or the problem can be redefined to fit possible solutions. “Logrolling” is a popular method of capitalizing on differences to reach a satisfying solution. As long as the parties can put multiple issues on the table and have different orders of priorities, then issues can be traded, so to speak, until a desired outcome is reached. At the time of the current writing, one has to look only as far as the polarization of national politics and the incapacitation of national and state legislative bodies or the behavior of major financial institutions in the wake of the mortgage banking debacle of 2008 to see how the motives and perceptions of the distributive approach persist. In the end, principled negotiation requires a mutual commitment by the parties to focus on the problem, define interests, invent options for mutual gain, and make decisions according to standards of fairness and reasonableness. When one or more parties in a negotiation choose to maximize self-interest over mutual interest, principled negotiation can be one of the early casualties. Much has been learned from research, but much needs to be done in education and intervention to improve a more widespread embrace of principled negotiation.

Roy J. Lewicki and Beth Polin

See also Bounded Rationality and Satisficing (Behavioral Decision-Making Model); Conflict Handling Styles; Ethical Decision Making, Interactionist Model of; Participative Model of Decision Making; Trust

Further Readings


PRINCIPLES OF ADMINISTRATION AND MANAGEMENT FUNCTIONS

Henri Fayol (1841–1925) was a French industrialist, consultant, and writer who first published what would later be referred to as a management theory.
As a person, Fayol is often ignored, even forgotten, but his management principles and methods still constitute what most people think of as management. Management students are told to put the interests of their organization first and to plan, organize, command, coordinate, and control in order to contribute to productivity and organizational success. Management education is now popular all over the world. More often than not it is based on a Fayolist notion of general management. This entry summarizes Fayol’s view of a company and the management principles that Fayol found most important. It describes the five basic management activities (i.e., planning, organizing, commanding, coordinating, and controlling) that Fayol identified and his interest in management generally. As indicated below, Fayol asked for the establishment of management education, as well as management theory. Fayol’s enormous impact on contemporary management thinking is summarized at the end of the entry.

**Fundamentals**

According to Fayol, the same six important functions are to be found in all companies, regardless of their size and production: These are the technical, commercial, financial, security, accounting, and management functions. Because the first five functions were well known, Fayol did not discuss them in any detail, but concentrated instead on the management function.

Fayol compared management to the nervous system of an animal. It should be present in all kinds of organizations (though Fayol referred mostly to companies) and at all organizational levels, transmitting information from one level to another. Management is not only a question for managers, Fayol maintained, but for all employees, including the workers. Everyone must possess some management knowledge. The relative importance of this knowledge varies, however, depending on the size of the organization and the position of the employee. It is more important the larger the organization and the higher the position of the employee.

For a large company, Fayol estimated the relative importance of management knowledge to five for workers, 15 for foremen, and 35 for heads of technical departments. For a CEO of a small company, the corresponding number was 25, for a CEO of a large company 40, and for the CEO of a very large company 50. These numbers were based on Fayol’s personal judgment and are open for discussion, however. Fayol emphasized that the meaning of management depends on the specific production of the company and the position of the manager.

**Management Is People Oriented**

In contrast to the other functions of a company, where raw materials and machines form an important part, the management function is made up of a group of people, expected to accomplish certain tasks together. Consequently, many of Fayol’s management principles and methods concern the personality of the individual manager. Most important, managers should be intelligent, have integrity and understand “the art of handling people.” Fayol’s moral advice to future engineers focuses on relationships—with workers and foremen in particular—and includes advice to seek out a worthy spouse.

The number of management principles is unlimited, said Fayol. Rules and initiatives are situation specific and must change as the conditions of work change. Based on his own experience, Fayol identified 14 important management principles:

- **Division of work**: The objective of division of work is to increase productivity. It is an acknowledged fact that increased specialization leads to more knowledgeable employees. The degree of specialization cannot be taken too far but must be carefully considered.

- **Authority and responsibility**: Authority means the right to give orders and the power to demand that the orders be followed. A manager needs a combination of formal authority, which comes with the position, and personal authority, including knowledge, experience, and a knack for getting things done. With authority comes responsibility as well as sanctions. The fact that many like to have authority (power) but shun responsibility makes the integrity of the individual manager all the more important.

- **Discipline**: The discipline within the company depends on its managers. Industry, obedience, persistence, and good behavior should be encouraged, as should compliance with the agreements between employer and employees.

- **Unity of command**: Problems arise as soon as an employee receives instructions from more than one manager. This is true of all kinds of
organizations: the military, the industry, the family, or the state. In each management situation, authority and responsibility should be clearly defined.

- **Unity of direction**: Unity of direction is a prerequisite for the unity-of-command principle, but it is about organizing and planning work so that related tasks are duly coordinated.

- **A subordination of private interests**: The interests of the organization, whether those of a company, the family, or the state, should always be given priority.

- **Fair wages**: There is no one solution to the problem of deciding on wages that are at the same time fair and reasonable from the company’s point of view. Wages should motivate the employees to do a good job but must also reflect external circumstances, such as the supply of labor or the competitive situation of the company.

- **Centralization**: To what extent work should be centralized or decentralized depends on the manager’s judgment, his or her own work capacity, and the situation. As situations change, the balance between centralization and decentralization should be changed accordingly.

- **Hierarchy**: The purpose of hierarchy is to regulate and facilitate communication. But shortcuts are often necessary. The employees should inform their superiors of their nonhierarchical contacts when possible. In urgent situations, they should have the courage to decide for themselves which action to take. The interests of the organization should guide behavior at all times.

- **Order**: Two kinds of order should prevail: material order (a place for everything and everything in its place) and social order (a place for everyone and everyone in his or her place). Organization and the successful recruitment of personnel are prerequisites for social order.

- **Fairness and impartiality**: Managers must not only be just; they must also treat their subordinates with respect and friendliness. Judgment, experience, and good nature should rule their behavior.

- **Stable employment**: A high turnover of employees has proved detrimental to companies, because of the time it takes to learn the job. This is particularly true when it comes to managers: It is expensive to employ managers as apprentices. The appropriate time of employment depends on the specific situation, however.

- **Initiatives**: All employees should be encouraged to present new ideas, while respecting the authority of their manager. Managers must learn to combine discipline with freedom for the employees to suggest and implement changes.

- **A team spirit**: Employees who work in a coordinated manner and with a strong sense of loyalty are an important asset to a company. Managers should encourage cooperation and should strive to make use of the skills of all their subordinates. Further, they should solve problems by means of oral communication when possible. Letters are a waste of time and will often lead to misunderstandings.

According to Fayol, principles function like a lighthouse: They guide those who already know their way to the port. Certain methods—management activities—are necessary to guarantee that the management principles are observed.

**Management Is Future Oriented**

Management is undertaken in the interests of the organization; as a result, management activities concern its future. To Fayol planning, organizing, coordinating, and controlling were obvious management activities. Whether or not a definition of management should also include commanding might be debated, however. Commanding might as well be regarded as an activity in its own right, Fayol argued. His decision to include commanding in his definition of management was based on the view that commanding is closely related to the other management activities. Further, people should understand that management is as important as the technical function, or even more important.

**Planning.** The general purpose of planning is to allocate the company’s resources in the best possible way. Planning includes evaluating and preparing for the future: to plan is to act. Although a plan may be a composite of a number of functional plans—for the technical, marketing, finance, and other functions—it is important that the company rely on one plan only. In its comprehensive plan, the company should estimate available resources, the value of its ongoing work, and the technical, commercial, financial, and other changes that it expects will take place. A plan should be unique, connect to other plans, and be flexible and exact. As a rule, large
companies plan for 1 year at a time. But they often make additional plans of shorter and longer duration. Such plans should connect to the 1-year plan. The first year of a 10-year plan is then identical to the 1-year plan. The second year will have to be adjusted as the plan for the following year is compiled and so on. In the end, so many changes take place that a new 10-year plan must be constructed. Normally, that will happen about every 5 years. Successful planning is highly dependent on the qualifications of the managers. Fayol was quite critical of the predominantly short-term national planning procedures, which he blamed on the rapid turnover of ministers. The ministers did not stay in office long enough to understand the importance of management, nor did they feel financially responsible. Fayol suggested that their time in office be prolonged.

Organizing. To organize is to provide the company with all necessary resources: raw materials, machines and equipment, capital and personnel. All organizations consist of two parts: one material part and one social part. Further, all kinds of organizations are organized in a manner similar to that of an industrial company. Companies whose work is similar are organized in more or less identical ways, and even companies whose production differs organize in strikingly similar ways. But depending on their employees, similarly organized organizations may be either well functioning or malfunctioning. One of the most important duties for a managing director is to continuously introduce new methods to increase productivity. His or her work is facilitated by the use of organizational charts. When regularly updated, such charts provide managers with a comprehensive overview over the entire organization. Managers may then easily detect overlapping or absent activities. In practice, many directors are preoccupied with running the company on a daily basis. This is why they may need the support of a staff. A staff should add to the capacity of the managing director and assist in finding areas for improvement. Staff members may work on a full-time or part-time basis or be called on when specialist knowledge is required. It is important that the staff does not simultaneously work for another department, but other than that, the organization of the staff should depend on the situation and the capacity of the managing director.

Commanding. Fayol defined the character and behavior of good managers by means of eight rules, which should also facilitate their work. Thus, good managers are well acquainted with their subordinates, are ready to dismiss employees who do not meet the standards of work, take pains to comply with the formal agreements that exist between the company and its employees, set themselves as good examples, evaluate their organization regularly, make arrangements so that they have timely information about what is going on within the company, are careful not to interfere in the detailed work of their subordinates, and encourage their subordinates to be active by giving them as much freedom as their position and competence permits.

Coordinating. The purpose of coordination is to give the right proportions to different aspects of the company’s work, adjust expenses to available financial resources, understand the relationships between the company’s different functions, and give priority to urgent issues. Fayol saw regular, preferably weekly, meetings, of the heads of different departments as the most effective coordinating mechanism. At such meetings, questions of common interest might be analyzed from different perspectives and problems solved. Moreover, spontaneous cooperation between different departments is stimulated, as the different managers became familiar with each other’s work.

Controlling. The purpose of control is to make sure that work is carried out in accordance with a plan, the instructions of the managers, and generally accepted principles. Every department should be responsible for controlling its own operations. Especially appointed inspectors are required only when this is too extensive or complicated. Such inspectors must have a strong sense of duty and good judgment. They should be independent of those to be inspected and have no responsibility for amending the deficiencies that they find. Should the principle of unity of command be violated, the company might be seriously harmed.

Evolution
Henri Fayol derived his management recommendations from his own long experience as chief executive of a large industrial company. Having graduated
as a mining engineer in 1860, at the age of nineteen, Fayol was hired into the coalmine at Commentry in central France, later to be reorganized as the Commentry-Fourchambault, or Comambault, Company and one of the largest iron and steel companies in France at the time. He was promoted as manager of a group of mines in 1866 and became managing director in 1888, when the company was on the verge of bankruptcy. Prosperity was restored, however, a fact that Fayol attributed to his own capacity as manager. Fayol worked for the same company for 58 years, until his retirement at the age of 77. He remained on the company's board of directors until his death.

As a young mining engineer and line manager Fayol published papers on underground fires, buried mine shafts, and the geology of coal formations in the Commentry district. For these he was awarded the prestigious Delesse Prize by the French Academy of Science.

At the end of his career, when he was 75 years old, Fayol summarized his experience as a manager. In *Administration industrielle et générale*, first published in the bulletin of the Société de l'Industrie Minerale in 1916, he systematized his management recommendations into principles and methods for good, orderly management. His book was translated into English in 1929, but published in the United States only in 1949 as *General and Industrial Management*.

To promote his management principles, Fayol then founded the Center of Administrative Studies (Centre d'Études Administratives). Situated in Paris, the center functioned from around 1917 until 1925 (or 1926). It held meetings for representatives of a variety of professions, published articles and lectures on management, and responded to commentaries on this subject.

**Importance**

The ubiquity of management in all kinds of organizations led Fayol to recognize management as a topic for education, theory, and practice.

**Fayol Asked for Management Education**

Because everyone must possess some management knowledge a management education should start with the family and continue through elementary school to universities, special schools, and the individual workplaces. In particular, the higher technical schools should include management in their syllabi.

The higher technical schools did not prepare their students for their future positions as managers, Fayol argued. These schools concentrated on training professional engineers and neglected the fact that many, if not all, of these engineers would need management knowledge. To rely solely on learning from experience was a mistake, Fayol maintained. Like other company functions, management should be taught, and a management education was of urgent importance. In particular, Fayol questioned the time-consuming teaching of advanced mathematics when, in effect, the simple rule of three would suffice.

**Fayol Asked for Management Theory**

Fayol referred the absence of management education to the fact that there was no management theory. He defined *theory* as a collection of principles, rules, methods, and procedures that were tested and verified by experience. True, an abundance of principles and methods already existed, but they were put together and employed in a haphazard manner; there were principles that were not accompanied by methods and methods that might as well prove detrimental.

In contrast to religious or moral principles, which regulate the behavior of individuals, or theological issues, management principles should benefit organizations and promote their economic interests.

It would not be difficult, Fayol believed, to find principles that experienced managers had found valuable. A dozen or so well-founded and generally accepted principles would suffice. Unfortunately, CEOs were often too busy, even uninterested, in contributing to management theory. But Fayol was optimistic: Even minor observations might add up, first to a general discussion and then to a theory. The purpose of *Administration industrielle et générale* was to initiate and stimulate such a discussion. Hopefully, with time, a management theory would emerge.

**Fayol's Notion of Management Is Now Common Knowledge**

Over the years, many asked for a management theory. But no such generally accepted theory was presented. Instead, Fayol's management principles
and methods have made a lasting impact on how management is perceived and taught, to the extent that most managers are in effect Fayolists, although perhaps unawares.

Fayol’s general management principles and methods have often been mistaken for those of his contemporary, the U.S. engineer and consultant Frederick Winslow Taylor (1856–1915), and seen as a European version of scientific management. But Fayol’s management principles stand in sharp contrast to those of Taylor in a number of respects. Where Taylor focused on standardizing the work of the individual worker, Fayol’s perspective is clearly top-down. In effect, and as stated in his book, Fayol recalled and systematized his own experience as head of a large industrial company. Polemicizing with Taylor, Fayol explicitly dismissed Taylor’s functional organization and defended instead the principle of unity of command.

Taylor and his scientific management principles are well known, much discussed, and often criticized, but Fayol fared differently. Neither his principles nor Fayol as a person have received much attention. One reason for this partial oblivion may be his enormous impact: Fayol was so influential that his management principles and methods are taken for granted, even apprehended as “natural.”

After 100 years, Fayol’s book is still highly modern. His management principles and methods are repeated over and over again in ever-new editions of management control and management accounting textbooks. Students are still instructed to memorize the acronym POSDCORB (planning, organizing, staffing, directing, coordinating, reporting, budgeting) in order to remember what they are expected to do as managers.

In retrospect, Fayol’s ambition to initiate a discussion on management principles and methods seems too modest. In fact, his principles and methods came to constitute the very management theory that he asked for.

Karin Holmblad Brunsson

See also Bureaucratic Theory; Management Control Systems; Management Roles; Neo-Institutional Theory; Organizational Effectiveness; Organizational Structure and Design; Process Theories of Change

Further Readings


Process Consultation

Process consultation is a term developed by Edgar Schein in the late 1960s as a contribution to organization development theory and practice. While his intention was to articulate an approach to consultation, he found that it was being used by managers as much as by consultants. The term process consultation has become established in the field of organization development and management theory as an approach to being helpful to think out and work through problems. This entry describes process consultation with regard to more expert-based approaches and discusses how it also serves as the foundation of clinical inquiry/research.

Fundamentals

Schein describes and contrasts three helping models: the doctor-patient model, the purchase model, and process consultation. The doctor-patient model of helping is grounded in the familiar process of a client experiencing a problem and going to an expert, who performs an assessment and prescribes a solution that the client implements. This approach to receiving help is both prevalent and most useful as the knowledge of experts is an important contribution to addressing problems. However, as Schein points out, certain elements need to be in play for this approach to be effective. The client needs to have identified the problem area correctly and reveal the necessary information for an accurate assessment by the expert. The expert needs to have the necessary expertise for effective assessment and
prescription. The client has to accept the assessment, implement the prescription, and have the problem solved after withdrawal of the expert. In the purchase model, the client purchases the skills of the expert, who implements them on behalf of the client. This approach also depends on the client’s performing a correct assessment and so identifying the relevant expert and the client’s accepting what the expert has done; similarly, the problem is solved after the expert has withdrawn. Organizations draw on the doctor-patient model when external experts are brought in to perform an analysis and to write a report with recommendations for organizational action. They draw on the purchase model when they employ external expert skills, for example, to design and install technology or other systems.

The third model, process consultation, is defined by Schein as the creation of a relationship with the client that permits the client to perceive, understand, and act on process events that occur in the client’s internal and external environment to improve the situation as defined by the client. From this definition, it can be seen that core elements of process consultation are building a collaborative relationship between consultant and client so that the client sees what is going on, develops some understanding, and builds a plan to act. Process consultants ask questions and make comments that aim to be helpful in structuring the client’s thinking further and in revealing information about what is really going, thereby teaching the client to be able to look at his or her own information and analyze it. Their interventions must seem normal and not be mysterious so that clients themselves may learn the skills of attending to their experience, testing their insights, and taking actions based on their understanding. Hence, through the interaction between the process consultant and the client, the client performs the assessment. A key tacit process is that process consultants are communicating to the client that they are willing to help but not take the problem onto their own shoulders.

Schein frames a typology of interventions through which the client is enabled to think through the problem and develop an action plan for addressing it. In pure inquiry, process consultants listen carefully and neutrally and prompt the elicitation and exploration of the story of what is taking place, thereby demonstrating the client’s ownership of the issues and the facilitative role of the process consultant. The second type of inquiry is what Schein calls diagnostic inquiry, in which process consultants begin to manage the process of how the content is understood by the client by exploring (1) reasoning processes, (2), emotional processes, and (3) actions. The third type of inquiry is what Schein calls confrontive inquiry. This is where the process consultants, by sharing their own ideas, challenge the client to think from a new perspective. These ideas may refer to (1) process and (2) content and focus on possible decisions and actions.

Process Consultation and Clinical Inquiry/Research

There are ongoing debates about the philosophy and methodologies of organizational and management research and their relevance to management practice. In this context, Schein argues that the knowledge obtained by traditional research models frequently do not reflect what “things are really like” in organizations and so are inadequate for studying organizational processes. Accordingly, he describes clinical inquiry/research as synonymous with process consultation.

Clinical inquiry/research is based on three basic assumptions. These assumptions are grounded in
the notion of a clinician as a professional who can diagnose a problem in terms of a deviation from “health” and work with a client to return to health.

- Clinical researchers are hired to help. The research agenda comes from the needs of the client system, not from the interests of the researchers. In this regard, clinical inquiry and research may be distinguished from traditional action research that typically begins from the researcher’s initiative and where the organization accommodates the researcher’s needs. In clinical inquiry/research the researcher is hired, and is being paid, to help, which means that the researcher may be afforded richer access to organizations that might not be shared readily with outsiders.

- Clinical researchers work from models of health and therefore are trained to recognize pathological deviations from health. Clinical researchers, therefore, need to be trained in organizational dynamics and have models of organizational health so that they know what to notice in organizations.

- Clinical researchers are not only concerned with diagnosis but have a primary focus on treatment. Accordingly, they need to be skilled in providing help in the manner of process consultation, which as described above is focused on being helpful.

There are several working principles underpinning the practice of clinical inquiry/research. The issues that clinical researchers work on are important for the organization because they have been hired to help. They accept the assumption that unless they attempt to change the system, they cannot really understand it. The primary sources to organizational data are not what is “out there” in the system but are in the effects of and responses to intervention. Through being present in a helping role, clinical inquiry/researchers are noticing how data are continuously being generated as the change process proceeds. Clinical researchers engage in observing incidents of learning and change, studying the effects of interventions, focusing on puzzles and anomalies that are difficult to explain, and thereby working to build theory and empirical knowledge through developing concepts that capture the real dynamics of the organization and focusing on the characteristic of systems and systemic dynamics. In this way, clinical researchers’ data is “real-time,” generated in the act of managing change, not data created especially for the research project.

At the heart of process consultation and clinical inquiry/research is the relationship with the client and the mode of collaborative inquiry. Clinical inquiry/research is a complete form of collaborative research because the knowledge is produced in collaboration with clients in a manner that serves both the practical needs of the clients and knowledge for the academic community. Working to be helpful is the central theme of process consultation and clinical inquiry/research. It is the key starting point and a constant focus of attention. It is the client who owns the problem and the solution, and clinical researchers must constantly be aware that the interactions in the here and now continually provide diagnostic information about what is going on, how the client is responding, and the relationship between clinical researcher and client. As assessment and intervention are parallel and simultaneous, rather than sequential, clinical researchers are always intervening. Everything is data. Accordingly, clinical researchers need to think out the consequences of their actions.

What is central, therefore, to the theory and practice of process consultation and clinical inquiry/research is the focus on and skill of learning how to be helpful. For the process consultant, this involves recognizing the limitations of expertise-based models and attending to how to be helpful to the client. It is not that the process consultant has no expertise. Process consultants’ expertise is in establishing a helping relationship, knowing what to look for in organizations, and intervening in such a way that organizational process are improved. So there may be occasions that a particular expertise is needed by the client, and the process consultant may offer that expertise. Schein’s advice is always to begin in the process consultation mode—that is, with a spirit of inquiry. When one begins as the expert, it is difficult to step out of that role, whereas beginning in the process consultation mode and remaining firmly in it allows the process consultant to step into an expert role when the occasion demands and then step out of it.

Importance

Process consultation is a foundational element of organization development; it articulates a core
philosophical value on being helpful. The focus of much scholarship is on content knowledge and expertise, with little attention paid to the scholarship of practice. The scholarly and educational implications of process consultation are that scholars and researchers would benefit from learning to be helpful. Schein suggests that as part of their education, business, and organization studies, students spend time in organizations, hanging around, learning the skills of how to be helpful.

The professional implications of process consultation for modern managers are that as expertise becomes more narrowly defined, the role of the general managers increasingly becomes one of enabling professionals to do their own jobs well. As Schein himself experienced, what was articulated initially as a form of consultation became adopted by managers in working with their own staff. He also found that process consultation skills are useful for parents, professionals in all fields, and for the informal exchanges between colleagues and friends. Process consultation also gives managers more choice in relation to using consultants, and so they can avail of the different forms of help that consultants can provide.

David Coghlan

See also Academic-Practitioner Collaboration and Knowledge Sharing; Action Research; Double Loop Learning; Engaged Scholarship Model; Force Field Analysis and Model of Planned Change; Management Roles; Organizational Development; Theory X and Theory Y

Further Readings

Process Theories of Change

Organizational change is defined as a difference in form, quality, or state over time in an organizational entity. The entity may be an individual’s job, a work group, an organizational subunit, the overall organization, or its relationships with other organizations. Change can be determined by measuring the same entity over two or more points in time on a set of characteristics and then observing the differences over time in these characteristics. If the difference is noticeable, we can say that the organizational entity has changed. Much of the voluminous literature on organizational change focuses on two questions about this difference: (1) How and what produced it? (2) How might the change process be managed in constructive directions over time? The first question focuses on process theories that explain how organization change unfolds over time. The second question focuses on the processes of implementing theories of change. Based on an extensive literature on processes of organization change and implementation, this entry addresses these two questions.

Fundamentals

On the basis of an extensive review of the social science literature, Andrew Van de Ven and Marshall Scott Poole found four basic process models of organizational change and development: teleology (planned change), life cycle (regulatory change), dialectics (conflictive change), and evolution (competitive change). As the figure indicates, these process models differ in terms of whether they apply to single or multiple organizational entities and if the change process follows a prescribed sequence or is constructed (emerges) as the process unfolds. The cells in Figure 1 illustrate how each theory views the process of development as unfolding in a fundamentally different progression of change events and being governed by a different generative mechanism or motor.

Understanding these four process models of change, and interactions among them, provides a rich repertoire of models for explaining change processes in organizations. In addition, an appreciation of the different breakdowns and remedies in implementing each of the four models of change provides a useful framework for diagnosing implementation processes. As discussed in the conclusion, this
diagnosis becomes complex when change agents use different models to manage multiple change initiatives ongoing in organizations.

**Teleological Process Theory (Planned Change)**

A *teleology* or *planned change* model views development as a repetitive sequence of goal formulation, implementation, evaluation, and modification of an envisioned end state based on what was learned or intended by the people involved. This sequence emerges through the purposeful social construction among individuals within the organizational entity undergoing change. Teleological processes of planned change break down either because participants do not recognize the need for change, they make erroneous decisions, or they do not reach agreement on goals or actions.

Models of planned change assume that people initiate efforts to change when their attention is triggered by significant opportunities, problems, or threats. Teleological processes often fail because only a minority of participants recognize the need for change. Dissatisfaction with existing conditions stimulates people to search for improved conditions, and people stop searching when a satisfactory result is found. A satisfactory result is a function of a person’s aspiration level—a product of past successes and failures that people have experienced. When the difference between perceptions of current situations and aspiration levels is not significant, the need for change is hardly recognized. Direct personal experiences with opportunities or problems are more likely to trigger individuals’ attention than are reports or exhortations about the need for change.

Teleological change processes also break down when there is a lack of consensus on plans or goals among organizational participants. Socialization activities provide a way of building consensus because team building, training sessions, and social gatherings, for example, facilitate frequent interactions that in turn lead to shared understandings, common norms, and cooperative attitudes. However, even when consensus for change is apparent initially, it may not last when divergent cultures in a loosely coupled organizational system lock in on maintaining their cultural traditions. Repeated conversations among relevant stakeholders throughout the change

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*Figure 1: Process Models of Organization Change*


*Note: Arrows on lines represent likely sequences among events, not causation between events.*
Process Theories of Change

Finally, a teleological process may also fail because of faulty plans or goals because of biases in individual or group judgments—errors in critical thinking and decision making. Studies show that human beings lack the capability and inclination to deal with complexity. For example, “self-justification” is one of the major reasons for escalating commitments to failing projects. Individuals who are responsible for an initial decision tend to become more committed to a failing course of action than individuals not involved in the initial decision. Common strategies for reducing cognitive biases include engaging other informants in focus groups or brainstorming processes to provide information and interpretations of the issue being considered.

Life Cycle Process Theory (Regulated Change)

A life cycle model depicts the process of change in an entity as progressing through a prescribed sequence of stages and activities over time. Activities in a life cycle model are prescribed and regulated by natural, logical, or institutional routines. In most organizational applications of a life cycle model, the rules prescribing the change process are based on routines learned in the past for managing recurrent changes in efficient and effective ways, or they may be externally induced; that is, they come from sources outside of the organizational entity undergoing change. Life cycle theory is not simply a model of passive compliance to mandated change by an entity; it also considers how proactive individuals adapt to their environments and make use of rules to accomplish their purposes.

In deviating from prescribed change routines, local adaptations are typically viewed as breakdowns by those who design and mandate a change routine. Prescriptions for change are perceived differently by “planners,” who design a change program, and “doers,” who implement it but did not participate in its development. Breakdowns happen when planners are separated from doers, because learning fails when events are caused and consequences are felt by different people. Consistent with the “not-invented-here” syndrome, people are more likely to implement and comply with changes in which they have a part in planning and adapting to fit to their local situations. Studies have found that local adaptation of a regulated change to fit a particular applied setting facilitates implementing change programs. Local adaptation is fundamentally a learning process triggered by the inevitable setbacks and mistakes people encounter as they attempt to implement a change program. This requires some local autonomy to adapt and modify mandated changes to local situations.

Managers of regulated changes tend to dichotomize employee responses into those who support and those who resist the proposed change and to view the latter as being disobedient. Recent studies examine a number of reasons why employees resist a prescribed change, including constructive intentions to correct errors that may prevent implementation. The ambivalence that employees feel toward an organizational change initiative does not necessarily represent opposition as disobedience; instead, it may reflect the complexity of most organizational changes as having both positive and negative characteristics.

Dialectical Process Theory (Confictive Change)

Dialectical theories explain stability and change in terms of the relative balance of power between opposing entities. Stability is produced through struggles and accommodations that maintain the status quo between oppositions. Change occurs when challengers gain sufficient power to confront and engage incumbents. Change is generated through the resolution of conflict between the current thesis (A) and an antithesis (Not-A), which results in a synthesis (Not Not-A). Conflict is the core generating mechanism of dialectical change. Dysfunctional methods of conflict resolution tend to impede dialectical change processes and may lead to undesirable win-lose outcomes.

To be a constructive force, conflict has to be resolved effectively. Studies at individual and group levels suggest that problem solving and open confrontation of conflicts are more likely to lead to expressions and debates of different opinions, which in turn facilitates the resolution of differences and conflicts. A collaborative conflict culture can foster adaptation to change, given that there is an emphasis on active listening to others’ points of view and seeking the best solutions for all parties involved. In contrast, organizations with avoidant conflict cultures are likely to be less adaptive to change because
norms against open discussion and the lack of information sharing can prevent effective solutions to disagreements.

Power is another concept that is central to a dialectical model of change. A necessary condition for conflict to be expressed is that the opposing parties have sufficient power to confront each other and engage in struggle. Conflict tends to remain latent or to be squelched by dominant actors until challengers can mobilize sufficient power to confront opposing parties.

**Evolutionary Process Theory**
*(Competitive Change)*

*Evolutionary change* unfolds as a recurrent and probabilistic progression of variation, selection, and retention activities. Variations, the creation of novel forms, are often viewed as emerging by blind or random chance. Selection occurs principally through competition among forms, and customers in the environment or higher-level decision makers select those forms best suited for the resource base of an environmental niche. Retention involves the forces and routines that perpetuate and maintain certain organizational forms.

Evolutionary processes, at the organization and industry levels, are subject to two common types of breakdowns: (1) a small number of homogeneous variations and selection criteria and (2) lack of competition for scarce resources. An evolutionary model of change emphasizes the need for a heterogeneous pool of variations and competition for scarce resources.

Variations provide the raw materials from which selection can be made. A greater number of diverse variations are more likely to produce innovations than a process that generates a small number of homogenous variations. A lack of diverse variations may result from the success of existing routines and of obtaining short-run rewards from them. Organizational experiments represent remedies to generate diverse variations by investing more resources in research and development, supporting innovation “champion” and “entrepreneurial” roles, and creating parallel projects in which several teams compete on the same general problem. Selection processes, such as setting goals without methods to reach them, establishing broad values, and setting project screening and selection criteria are also important ways to facilitate evolutionary change. Finally, retention processes are influenced by the application of consistent controls, formalized routines, and organization culture and values.

A key characteristic of variation is its “blindness” with respect to its ability to improve an organization’s fitness. When variations are not “blind,” evolutionary selection processes tend to be biased in directions that may not promote adaptation and fitness. One source for this lack of blindness is the existence of powerful incentives that lead decision makers to favor variations believed to produce good outcomes. Finally, evolutionary theory only works under conditions of competition for scarce resources; they break down when resources are munificent and competition is low because in these situations both efficient and inefficient variations tend to survive and grow.

**Evolution**

Since their 1995 introduction, the four process models of change have received extensive study and attention by management scholars and practitioners. Useful variations of these four basic process models have also been proposed. Central to the evolution of this recent research is appreciating that organizational change and implementation processes often appear more complex than the four process models suggest. This may be due to several reasons.

First, errors or omissions in implementing one model of change may trigger the start-up of another change model. For example, a failure to reach consensus among leaders of a planned change may bifurcate the leaders into two opposing factions who then engage in dialectical conflict and struggle. So also, age and size may lead to inertia in the life cycles of organizational products, processes, and routines and make them less responsive to environmental changes. Adaptation failures in these life cycles may trigger an evolutionary process of the environment selecting out the misfit. There are many possible ways that the four process models may trigger, compensate, and complement each other.

A second reason why organizational change is often complex is that positive and negative interactions among several models of change can move an organization toward (1) equilibrium, (2) oscillation, and (3) chaos. Organizational equilibrium results when its routines, goals, or values are sufficiently dominant to suppress opposing minority positions and thereby produce incremental adaptations flowing
toward equilibrium. For example, an existing organizational culture, structure, or system can remain intact by undertaking incremental adaptations that appease or diffuse opposing minority positions. Organizational business cycles, fads, or pendulum swings occur when opposing interest groups, business regimes, or political parties alternate in power and push the organization somewhat farther from a stable equilibrium. Such cycles explain recurrent periods of organizational feast and famine, partisan mutual adjustment among political parties, and alternating organizational priorities on efficiency and innovation.

Third, seemingly random organizational behaviors are produced when strong oscillations or shifts occur between opposing forces that push the organization out of a single periodic equilibrium orbit and produce multiple equilibria and bifurcations. Currently, there is growing interest in recent advances in chaos theory and nonlinear dynamic models to explain such seemingly random behavior in organizations. Thus, different patterns of interaction between change motors can push an organization to flow toward equilibrium, to oscillate in cycles between opposites, or to bifurcate far from equilibrium and spontaneously create revolutionary changes.

As these complexities and implementation errors imply, it is important to caution that existing theories of organizational change are explanatory but not predictive. Statistically, we should expect most incremental, convergent, and continuous changes to be explained by either life cycle or evolutionary theories and most radical, divergent, and discontinuous changes to be explained by teleological or dialectical theories. But these actuarial relationships may not be causal. For example, the infrequent statistical occurrence of a discontinuous and radical mutation may be caused by a glitch in the operation of a life cycle model of change. So also, the scale-up of a teleological process to create a planned strategic reorientation for a company may fizzle, resulting only in incremental change.

**Importance**

The mental model one uses to manage organization change is a strategic choice, and making this choice implies knowing alternative models from which to choose. We reviewed Van de Ven and Poole’s four process models of organization change and development and proposed that each model applies in the different situations. Useful variations of these four basic process models have been introduced since 1995. The important point of these models is that they encourage managers and scholars to expand their repertoire of models for managing organizational change. This enables us to think beyond a single change model—such as the dominant model of planned change—and to identify situations when each process theory of organization change applies. Current and future research is underway that examines the different situations when teleology, life cycle, dialectical, and evolutionary models—and their interactions—reflect the change processes unfolding organizations.

When change processes occurring in organizations do not unfold in a manner suggested by our mental model, they tend to trigger two kinds of strategies. Typically, the first strategy is to take actions intended to correct the people or processes in the organization that prevent the change model from running as expected. A second strategy for dealing with breakdowns is to reflect on and revise the mental model in use to one that better fits the process of change unfolding in the organization. This strategy represents the scientific method of testing and rejecting a theory if data do not support it and then revising or adapting a theory that fits the observed data. This second strategy appears prudent only after reasonable attempts are made but fail to implement the first strategy. Correcting or replacing one’s conceptual model of change to fit the people and organization undergoing change has received very little research attention and presumes a multidimensional change agent who can mentally shift between different conceptual models of organizational change. This second strategy requires developing an appreciation of the interdependencies and interactions among various models of change and their associated breakdowns.

Andrew H. Van de Ven

**See also** Compliance Theory; Conflict Handling Styles; Path-Goal Theory of Leadership; Stages of Innovation; Strategies for Change

**Further Readings**


The theory of product champions is based on the political mediation needed to implement any major change in an organization. This role is important for management of complex organizations. New products or processes, whether they are technical, administrative, social, or economic, involve many steps and involve many people for successful implementation. In other words, they involve innovation and some changes in many domains. Depending on the complexity and the scope of the impact of the innovation, it requires one or more committed individuals to steer the innovation through the many hurdles it must cross. In management theory, this type of individual has been defined as a champion. The following entry will review the characteristics, roles, behaviors, and impact of product champions.

**Fundamentals**

Donald Schon explained that the champion is one who identifies with an innovation and valiantly pushes it with some personal risks. The primary barriers to innovation are (a) organizational inertia, (b) fear of criticism, (c) feeling of futility in pursuing the innovation, and (d) the lack of attention given to an idea that is in its early stages. Stephen Markham has shown that a champion helps in the innovation process by (a) developing a personal commitment to the innovation, (b) helping develop the idea, and (c) navigating the idea through organizational bureaucracy at his or her own personal risk. In this context James Quinn and James Muller provided an apt analogy with the development of a child. A child needs a loving and nurturing mother, a father to provide the resources and support and a pediatrician to heal the problems that the parents can’t solve. Similarly, an innovation or a new idea needs committed nurturing, resources to support it, and expert knowledge to solve technical problems.

**Personality Characteristics of Champions**

Research has shown that product champions have distinct personality type, occupy a distinct role, and do so in a distinct way. Alok Chakrabarti identified several personality characteristics and skills that champions often have: (a) drive and aggressiveness, (b) political astuteness, (c) knowledge about the organization, (d) knowledge about the market, and (e) technical competence. A successful champion has to understand the reality of his or her environment, both internal and external, and have the capacity to deal with the multiple stakeholders in the organization.

Jane Howell and Christopher Higgins found that champions have a high need for achievement, a personality trait of entrepreneurs. They also observed that the champions share some of the personality traits of transformational leaders, such as persuasiveness, persistence, risk taking, and innovativeness. Like transformational leaders, successful champions are able to inspire and provide intellectual stimulation to others in the organization for nurturing the innovation.

**Multidimensional Nature of Champion Role**

Alok Chakrabarti and Juergen Hauschildt classified the different roles of individuals involved in different phases in the innovation process. In the initial phase of idea development, there are the idea stimulator, the initiator, and the catalyst. They work on the fuzzy front end of the innovation process. The next phase is technical development of the idea to establish its technical viability. The role incumbents in this phase are termed information specialists, technologists, and solution givers. When the
idea passes the technical feasibility tests, other organizational units get involved in the implementation process. The role of champion becomes important in managing the process. The role incumbents have been termed orchestrator, facilitator, and process helper. Executive decisions are needed to keep the innovation moving forward toward implementation and commercialization. That is why one needs legitimizers or decision makers. At the implementation or commercialization phase, one needs an executor or realizator.

Another way to distinguish among various types of champions is on the dimension of power base of the incumbents. People with expert power are termed inventors, technical innovators, and technologists. The role incumbent with the hierarchical base of power is executive champion, chief executive, or machtpromotor (in German). Champions with access to resources are sponsors, business innovators, and investors. Those who work with their organizational knowledge and communication skills are termed product champions, project champions, and entrepreneurs.

Hans Georg Gemuenden and his colleagues in Germany strongly recommend that the earlier model of champion being an all-encompassing role to promote an innovation needs to be expanded to recognize the roles of multiple specialists. Since there is no suitable German equivalent of the word champion, German scholars have used the word promoter. According to them, there are five types of promoters: power promoter, expert promoter, process promoter, technology promoter, and marketing promoter. The power promoter supports the project through his or her hierarchical power. The expert promoter uses his or her technical knowledge to overcome the barriers. The process promoter, through his or her knowledge of the organizational processes, helps the project to progress without any undue hitch. Technology and marketing promoters are viewed as boundary spanners for importing knowledge and information from external sources in an open innovation environment.

**Champion Behavior**

Jane Howell and her associates proposed a division of the behavior of champions into three categories: (a) expression of enthusiasm and confidence (b) persistence in adversity, and (c) getting the right people involved. The champion’s enthusiasm goes beyond what is organizationally required; it is a personal commitment similar to a parental affection for the innovation. The behavior of effective champions in the different stages of the innovation process can be summarized as follows: (a) They rely on their personal networks to explore new ideas from different sources. (b) They use their wide general knowledge and breadth of experience for dealing with technical and marketing problems. (c) They use both formal and informal channels of communication to “sell” the idea to different stakeholders. (d) They monitor themselves and anticipate the pockets of resistance to new ideas so as to be prepared to respond. (e) They “sell” their idea as an opportunity in the context of the organization’s strategy.

Champions use many strategies to influence their adversaries and people not convinced about the innovation. Reasoning is the rational strategy where one uses facts and data in developing a logical argument for the innovation. Forming a coalition of like-minded colleagues is an effective strategy to influence others. Sometimes a champion may deploy ingratiating as a strategy. Bargaining is also another influence strategy where one exchanges favors or benefits. Assertiveness is another strategy where one takes a forceful approach. Appealing to higher authority is also a strategy used by champions. If the champion has authority, then sanctions are used to coerce. Effective champions use a variety of influence strategies.

Champions don’t guarantee the success of an innovation. They often invoke antagonists. When an organization has an open culture, the antagonists may play the role of loyal opposition and actually be constructive in the innovation process. When the climate is repressive, then opposition may become hidden. Hidden opposition is more dangerous. Opposition can take place in any the following ways: (a) challenging the credibility of the experts, (b) coalescing the pockets of opposition to form a sizeable block, (c) doubting the economic viability of the idea, (d) doubting the technical feasibility, (e) pointing out the inadequacy of the organizational infrastructure to support the idea, and (f) explaining the incongruity of the innovation and the organizational culture and tradition. Champions need to overcome these objections to get the innovation to proceed.
Importance

The importance of champions has been emphasized in any innovation process that involves multiple organizations as sources and users. Ulrich Lichtenthaler and Holger Ernst found that champions contribute positively in external knowledge acquisition. They help overcome potential negative attitudes and establish contacts with sources of external technology. However, champions need a favorable organizational climate to emerge and be successful.

Edward Sim and his colleagues found that the importance of the role of champion differs in different contingency conditions of technical uncertainty and marketing uncertainty. Innovators are most important in radical innovation where both the technical and market uncertainties are high. Champions are important in market innovation with a high level of market uncertainty but a low level of technical uncertainty. Inventors are important in technological innovation with high technical uncertainty. Implementers are important in incremental innovation with a low level of uncertainty in both technical and marketing domains. Incumbents in these four roles have different skills. For example, innovators must have technical expertise, market expertise, and political acumen. The biggest asset of a champion is political acumen, while technical and marketing expertise are of secondary importance. Inventors have technical expertise as their core skill. Implementers must be good at process implementation. Other dimensions in which these people can be differentiated are as follows:

1. **Motivation**: Inventors focus on technology, champions focus on financial success and reputation, implementers are concerned with a good living, and innovators are concerned with developing solutions for their customers.

2. **Openness**: Inventors are strongly introverted, champions are strongly extroverted, implementers are extroverts, and innovators can be either introverts or extroverts.

3. **Organizational politics**: Inventors use avoidance, champions use an embracing attitude, implementers use rational arguments, and innovators use positive influence tactics.

4. **Orientation**: Inventors have task orientation, champions are communication oriented, implementers have task and people orientation, and innovators have multiple orientation.

The implications for managers involve recognizing people who can effectively fulfill the role of a champion and recruiting them accordingly. Empowering them is also important; a champion needs a sponsor. Champions will be confronted with opposition from different persons in the organizations for various reasons. The champion may resolve some of these conflicts as long as there is clear recognition of top management support.

Cultural Implications

Scott Shane and his colleagues have found that the effectiveness of the influence strategies of champions are related to culture. One cannot use the same behavior that makes one successful in a Western country in a country that has a different culture. Shane used three dimensions of culture to differentiate countries. These are power distance, uncertainty avoidance, and individualism. Power distance is an indicator of social acceptability of an unequal distribution of power. Uncertainty avoidance represents the tolerance for ambiguity in a society. Individualism represents the preference for one’s immediate family first over social group and organization.

A society with high power distance prefers champions who work with a budget and approval in a closely monitored situation. This is contrary to what has been observed in the United States and Europe where champions are more empowered to work in a flexible environment with more autonomy to take initiatives. The effective championing strategy in societies with high uncertainty avoidance is to work within organizational rules, norms, and procedures. In societies with a high level of individualism, people prefer that champions don’t use their personal appeal to gather cross-functional support.

These findings show that much of what we have learned about innovation process and champion behavior in the West may not be applicable in Asia and elsewhere in emerging economies.

Managerial Implications

To understand the managerial implications in terms of fostering champions and motivating them, one needs to understand what champions like and don’t like. Jane Howell has made the following points about champions: They like to work in organizations that provide opportunities for innovation, they want
to work in a flexible work environment, they like challenges, they like to be networked, and they want to be recognized for their contributions. Managers should therefore provide opportunities to innovate. Imposing rigid bureaucratic rules stifle the would-be champion. Also, managers should provide opportunities for networking and thus increase the social capital of these individuals.

Since the role of champions is self-selected, managers should resist the temptation to appoint somebody to champion an innovation. Because innovation involves uncertainty, managers ought to consider any failure as an opportunity for learning instead of finding a scapegoat to blame. There should be a proper mechanism for recognizing the contributions of the champion. Monetary and other instruments of reward may be used to reward and motivate the champion behavior. Most important, champions need both emotional and organizational support from their managers when they face intense opposition.

Alok Chakrabarti

See also Innovation Speed; Patterns of Innovation; Patterns of Political Behavior; Process Theories of Change

Further Readings


**PRODUCT-MARKET DIFFERENTIATION MODEL**

Igor Ansoff’s *product-market differentiation model* is a strategic planning tool that relates a firm’s product-market engagements and marketing strategy with its general strategic direction. It was a result of his work when he undertook a diversification study for Lockheed Aircraft Corporation. The foundation of the Ansoff “matrix” was placed in a 1957 article in *Harvard Business Review* and later published in Ansoff’s seminal book of 1965. It was a critical contribution in the history of management since it provided managers with a tool to move beyond operational work and basic planning into a new domain. Moreover, it provided a mechanism for managers to begin to think about allocation of resources in a more deliberate approach. The premise of the basic matrix provided a simple methodology for firms to *diversify*. Moreover, it provided a launchpad for resource-based theories, since managers had to actively allocate resources for diversification. Ansoff’s interests were always with practicing management, and the creation of the matrix continues to be a major foundational framework of the modern approach of strategic management. This entry provides an overview of his framework and its influence on management education and practice.

**Fundamentals**

Ansoff’s product-market differentiation model, often depicted as a matrix, analyzes differentiation options along two dimensions—products (new, existing) and markets (new, existing). As such, it presents managers with four growth strategies:

1. **Market Penetration**: pushing existing products...
and services to existing markets; (2) **market development**: developing new markets for existing products; (3) **product development**: developing new products for existing markets; and (4) **diversification**: developing new products for new markets.

**Growth Strategies**

**Market penetration.** Growth was defined as market penetration for existing products and services into existing markets. It is the least risky since it leverages existing resources and capabilities. In a growing market, simply maintaining market share will result in growth, and there may exist opportunities to increase market share if competitors reach capacity limits. However, market penetration has limits, and once the market approaches saturation, another strategy must be pursued if the firm is to continue to grow. Market penetration pursues realization of the following: (1) Preserve or increase the market share of current products; this can be accomplished by a combination of competitive pricing strategies and existing functional management. (2) Protect and dominate growth markets. (3) Reorganize a mature market by driving out competitors. (4) Increase usage by existing customers.

**Market development.** Market development is also a growth strategy, but the goal is to enter new markets with existing products and services, including new geographical regions. The development of new markets for the product may be a good strategy if the firm’s core competencies are related more to the specific product than to its experience with a specific market segment. Because the firm is expanding into a new market, a market development strategy typically has more risk than a market penetration strategy. There are many possible ways of approaching this strategy, including (1) new geographical markets, (2) new product dimensions or packaging, (3) new distribution channels, and (4) different pricing policies to draw different customers or create new market segments.

**Product development.** Product development aims to introduce new products and services into existing markets. This approach may require the development of new capabilities. A product development strategy may be appropriate if the firm’s strengths are related to its specific customers rather than to the specific product itself. In this situation, it can leverage its strengths by developing a new product targeted to its existing customers. Similar to the case of new market development, new product development carries more risk than simply attempting to increase market share. Considering the product life cycle elements, this approach was aimed to have new products available in the existing markets before the product life cycle of previous products expired. Such an approach will keep the customers returning while the revenue stream remains constant.

**Diversification.** Diversification aims at new markets with new products and services. This is fundamentally a more risky strategy because the business is moving into markets in which it has little or no experience. For a business to espouse a diversification strategy, therefore, it must have a clear idea about what it expects to gain from the strategy and a candid assessment of the risks. Diversification pursues an increase in profitability through greater sales volume obtained from new products and new markets. Diversification can transpire either at the business unit level or at the corporate level. At the business unit level, it is most likely to grow into a new segment of an industry that the business is already in. At the corporate level, it attempts to enter an area where the firm has no previous knowledge and experience. Ansoff pointed out that a diversification strategy stands apart from the other three strategies. The first three strategies are usually pursued with the same technical, financial, and merchandising resources used for the original product line, whereas diversification usually requires a company to acquire new skills, new techniques, and new facilities.

**How to Choose Between These Methods?**

Managers should be able to scan the environment and determine the degree of the organization’s turbulence. Some relatively low-intensity environments provide the manager with time to change. Therefore, the **market penetration** and **market development** are ideal. The organization has time to incrementally identify familiar geographical areas, new usages of product or service, innovations in pricing and distributing, and different marketing approaches. This approach also allows the organization to use existing managerial capability as well as existing managerial behavior. However, when the intensity of the external environment increases, then managers must be ready to
respond quickly. In this instance, \textit{product development} and \textit{new markets} are appropriate response mechanisms. This high-turbulence environment requires that managers have the budget to engage in developing new products and new markets. For example, expanding from a region of one country to the next with an existing product normally requires incremental changes in skills and behavior. However, when an organization is attempting to introduce a new product into a foreign market, this may require capabilities and behavioral approaches that the organization may not have. Therefore, this is a more risky approach considering the resources required. Such environments require a diversification approach.

\textbf{Importance}

To this date, management and marketing textbooks are still using the Ansoff matrix to describe the relationship between products and markets. For over 50 years the Ansoff matrix has given generations of marketers and small-business leaders a quick and simple way to develop a strategic approach to growth. Hence, Ansoff’s work continues to provide simplicity for marketing choices. Although the initial thrust for Ansoff was to provide a new thinking of diversification, the matrix proved to have a lasting effect on academics as a clear and concise approach to diversification. At the time the matrix was developed, diversification was an emerging strategic approach for managements.

In addition, the Ansoff matrix became a consulting foundation for future tools still being used today. The Boston Consulting Group (BCG) used the matrix approach to develop a new approach to describe relative market share versus market growth rates. The GE/McKinsey matrix was developed around the same time as the BCG to provide a relationship between a business unit’s strengths and industry attractiveness. In addition, Ansoff may have provided a framework for Michael E. Porter to develop his approach to generic matrix and strategy approaches. Ansoff provided the framework for diversification (how to move into a new market), and Porter provided a tool to position the products-services into this new market. So the Ansoff matrix provided a launchpad to the consulting world to “translate” complex tasks into simple managerial approaches. Moreover, it provided a tool to facilitate management thinking into translating qualitative information into quantitative data.

According to Ansoff, simultaneous pursuit of market penetration, market development, and product development is usually a sign of a progressive, well-run business and may be essential to survival in the face of economic competition. Such elements are fundamentally accepted today as well. However, the diversification strategy stands apart from the other three, particularly when considering the time it was created. While the first three strategies are usually followed with the same technical, financial, and marketing resources used for the original product line, diversification generally requires new skills, new techniques, and new facilities. As a result, it almost always leads to physical and organizational changes in the structure of the business that represent a distinct break with past business experience. Hence, the Ansoff matrix forces firms to separate operational and strategic work; it provides them with a domain to think beyond their endogenous planning cycles and begin to explore external dynamics. Moreover, it remains a useful tool to teach students and practicing managers how to evaluate and select between basic product-market choices.

\textit{Robert Moussetis}

\textbf{Further Readings}


Innovators—firms that are the first to commercialize a new product or process in the market—do not always profit the most from their innovation. Sometimes a fast second entrant or even a slow third will outperform the innovator. The technology behind the computerized axial tomography (CAT) scanner, now a standard medical diagnostic tool, was developed in the late 1960s by a senior engineer at EMI Ltd., a diversified U.K.-headquartered entertainment and electronics conglomerate. Although EMI brought the technology to market fairly quickly, introducing a commercial model in the United States in 1973, 8 years later it had dropped out of the scanner business, leaving the market to later entrants. The EMI story is far from unique. The earliest vendors of microcomputers for home use (R2E, CTC, MITS, Commodore) are all but forgotten today. Xerox (in its PARC laboratory) and Apple invented the graphical user interface, but Microsoft Windows dominates the PC market with its follow-on version. Apple’s iPod was not the first portable digital music player, but it has a commanding position in the category today. Merck was a pioneer in cholesterol-lowering drugs (Zocor), but Pfizer, a late entrant, secured a superior market position with Lipitor. At first glance, it is tempting to say that these examples reflect the result of creative destruction as described by Joseph Schumpeter. But creative destruction results from challenges by disruptive technology, while the cases cited above involved mostly incremental/imitative entrants building on the efforts of the pioneer. This is not to say that there is no such thing as a first-mover advantage. Genentech was a pioneer in using biotechnology to discover and develop drugs, and 30 years later was the second largest biotechnology firm, right up to its acquisition by Hoffmann-La Roche in 2009. Intel co-invented the microprocessor and still has a leading market position 40 years later. Dell pioneered a new distribution system for personal computers and, despite recent challenges and many would-be imitators, remains one of the world’s leading PC vendors. Toyota’s much studied production system has provided the automaker a source of competitive advantage for decades, contributing to the company’s becoming the world’s biggest car manufacturer in 2008. The profiting from innovation (PFI) framework, introduced in a highly cited 1986 article by David J. Teece, provides deep insight into cases where industry pioneers thrived and those where they vanished. This entry explains the fundamental concepts of the theory and how they combine to provide insight for innovators formulating competitive strategies to commercialize their innovations.

**Fundamentals**

In its original formulation, the PFI framework integrated three concepts: appropriability, industry evolution, and complementarity. Additional concepts, such as system integration and industry structure, have subsequently been introduced to increase the framework’s explanatory power.

**Appropriability**

Appropriability means the extent to which the innovator can capture the profits generated by the innovation. The degree of capture is impacted by characteristics of the technology and the legal environment and by the ownership of complementary assets needed to bring the innovation to market. These characteristics determine the strength of the innovation’s appropriability regime—that is, how difficult it will be to imitate the innovation and undermine the innovator’s profitability.

An appropriability regime is “weak” when innovations are difficult to protect, as when they can be easily codified and legal protection of intellectual property is ineffective. Appropriability can be “strong” when innovations are easy to protect because knowledge about them is tacit and/or they are well protected legally. Regimes differ across fields of endeavor, not just across industries and countries.
Appropriability regimes change over time, and the regime applicable to a given innovation may be malleable to the innovator’s strategy. For example, a firm with a strong position in downstream complementary assets might decide it is in its interest to weaken the upstream appropriability regime, as in the case of IBM making its server operating system available as a nonproprietary product to gain advantage in the sale of related hardware, applications, and services.

It is vital for firms to recognize that patents, which may have strategic value beyond the direct profit goals discussed here, rarely confer strong appropriability, outside of special cases such as new drugs, chemical products, and rather simple mechanical inventions. Many patents can be “invented around” at modest cost. Moreover, the legal and financial requirements for upholding a patent’s validity, or for proving its infringement, are high. Validity is never firmly established until a patent has been upheld in court.

In some industries, particularly where the innovation is embedded in processes, trade secrets are a viable alternative to patents, which are especially ineffective at protecting process innovation. Trade secret protection is possible in cases where a firm can put its product before the public and still keep the underlying technology secret. Many industrial processes, including semiconductor fabrication, are of this kind.

Industry Evolution

In the early stages of an industry’s development, product design is often the basis for competition. After considerable trial and error in the marketplace, one design or a narrow class of designs begins to emerge. As this happens, late entrants may be able to modify the pioneering innovator’s product (or process) and make one of these follow-on designs the industry standard, placing the pioneer at a disadvantage.

The establishment of standards is a critical stage in the evolution of an industry. An innovating firm can solidify the demand for its technology when standard setting bodies adopt standards that “read on” (that is, incorporate) their patents. Ownership of key patents, whether used in a standard or not, can have other benefits. Patents can be used to help generate licensing revenue, gain privileged access to new technologies, and steer evolution of technology.

Many of the newer growth industries that rely on the Internet or on telecommunications networks bring an important caveat to this view of industry evolution. Most network-based industries are characterized by mechanisms of positive feedback— including positive adoption externalities, increasing returns to scale, and switching costs—that provide a built-in advantage for early entrants. Nevertheless, later entrants, such as Google, in the case of search engines, can still become the category leader.

Complementary Assets

Successful commercialization of an innovation almost always requires that technical knowledge be used in conjunction with assets or capabilities such as marketing, manufacturing, after-sale service, distribution, and software. Necessary complements may also include a host of intangible assets, such as a viable business model, customer relationships, reputations, and organizational culture. If an innovator is slow to realize the importance of these assets/capabilities, does not have them, or cannot easily contract to access them, it is likely to lose out to an imitator that is strong in these areas.

EMI’s CAT scanner, for example, was a sophisticated machine that required a high level of customer training, support, and servicing. EMI had none of these capabilities, could not easily contract for them, and was slow to realize its strategic vulnerability. Competitors like GE with more experience manufacturing and selling complex health care equipment (along with the important complements of a sales and marketing organization and a good reputation) were in large measure able to work around EMI’s intellectual property and get into the market quickly with improved versions. EMI’s situation, in which the appropriability regime for its innovation had weaknesses and whose missing specialized assets left it compromised, is a common one. In these circumstances, the innovator must decide whether to contract for the supply of a critical capability (potentially creating a rival), build the capability internally (thus sacrificing flexibility), or find a joint venture partner to share the risk and rewards.

Business model design (in this instance, the choice of which inputs to source internally) is therefore one of the most critical steps for determining the innovator’s profitability. The innovator must correctly assess the firm’s existing capabilities and/or its ability
to develop new ones in a timely, cost-effective manner. Bureaucratic and human resource issues also come into play when reshaping the activities of the enterprise.

In certain cases, internal supply (i.e., [vertical] integration) may be worth pursuing even if it looks unattractive from a cost or time-to-market perspective. One such strategic reason is that the complement is co-specialized with the innovation (or, worse, the innovation is specialized to the complement but not the reverse). The dependence creates a potential holdup problem that could allow an external supplier to extract a large share of profits. An example of an external supplier advantage is Intel's ability to sustain high prices (and profits) for its microprocessors from the computer companies that depend on it. If, during the initial development of its PC, IBM had asked its internal chip division to develop a microprocessor, then it would have been later entering the market but would probably still have dominated based on its reputation with business customers and its marketing muscle while denying its imitators access to a key input. More important, it would have captured much of the profit that it unwittingly delivered to Intel.

Another situation in which building internal supply capabilities makes sense is when the innovation creates a new industry and no existing suppliers/complementors have the required capabilities in place. In such cases, strategic or time-to-market considerations, the risks involved, and the deep codependencies that arise could make it counterproductive to spend time convincing a potential supplier of the value of making the necessary investments. This was, for example, the logic behind the emergence of large, vertically integrated industrial firms that emerged in the late 19th century. Companies exploiting new products (like sewing machines) or processes (like meat packing) often chose to integrate upstream into materials or other inputs and downstream into marketing and distribution.

Contracting for components or complements has obvious benefits but also contains strategic hazards. One of these is the risk of technology leakage (unintentional or otherwise) to competitors who are not part of the contract. A subtler hazard in such a relationship is the inability to pace or direct the evolution of a supplier's proprietary technology. Microsoft, for example, develops certain applications that run on its Windows operating system, competing in some cases with independent software vendors who must rely on Windows for their development environment. Microsoft's ability to pace its upstream operating system technology and its ability to use its intimate knowledge of that technology in its applications software helped it become one of the dominant players in applications.

Even when an innovator and its strategic allies collaborate with good incentive alignment, they may find it difficult to accomplish the coordination of their activities across multiple generations of technology. Delays are frequent and not result from strategic manipulation; they may simply flow from uncertainty, asymmetric capabilities, and divergent goals among the allies.

In the presence of these hazards, shaping the path of learning and innovation sometimes requires vertical integration. When this is not possible because of time-to-market or other considerations, other strategies for (re)shaping the industry's architecture must be pursued through, for example, corporate venture investments in the supply base to build a competitive market for key complements.

**System Integration**

Since the PFI framework was introduced, many intermediate goods and services that were once hard to access in numerous industries are now available “off the shelf.” The global transfer of technological know-how and capabilities through the investment and trading activities of multinational firms has helped spread know-how and capabilities across the globe. As a result, creative purchasing and partnering arrangements with offshore enterprises have become everyday occurrences.

In this altered landscape, the “system integration” function, those capabilities required for business enterprises to orchestrate global resources, remains in scarce supply. With innovation happening in different parts of the supply chain, the innovator must decide which technologies/features to incorporate into its products and then make those elements work together in a product that is useful and attractive to customers.

Boeing’s recent experience with its new 787 Dreamliner provides an instructive negative example. Boeing, against the advice of some of its engineers, decided to rely far more than ever before on a global array of suppliers to develop parts for its new plane.
This was seen as a cost- and risk-sharing measure; but Boeing reportedly failed to build sufficient internal monitoring capacity to verify progress. Because some suppliers lacked the capabilities to develop parts of the necessary quality, the entire project experienced years of (very costly) delay. In the end, Boeing had to step back in and help its suppliers develop the subsystems they were supposed to design and build for Boeing.

**Importance**

The PFI framework provides the basis of an explanation for how managerial decisions, intellectual property protection, and the asset structure of the firm impact the business enterprise's ability to capture value from its innovation. It is both a normative theory of strategy and a predictive theory of how the benefits from a focal innovation are likely to be distributed between the innovator, customers, imitators, suppliers, and the owners of complementary assets.

The PFI theory is testable. It leads to unambiguous predictions about how the private gains from innovation will be shared. The framework also provides a valuable template for guiding strategy formation by innovators. Each element of the framework—the stage of industry evolution, the appropriability regime, the necessary complementary assets—requires careful analysis and reflection by itself. The framework, as elaborated in the initial 1986 article and elsewhere, also provides guidance for understanding the interactions of these elements. For example, complementary assets (and hence the firm's internal investments and external contracting relationships) play a more important role in industries where a dominant design has already emerged. The PFI framework can help structure the numerous and seemingly unconnected strategic decisions that arise when planning to commercialize an innovation in any industry.

*David J. Teece*

**See also** Competitive Advantage; First-Mover Advantages and Disadvantages; Resource Orchestration Management; Strategic Alliances; Value Chain

**Further Readings**


**Programmability of Decision Making**

A usual reference in studies and textbooks related to decision making, the *programmability* of a decision problem, also referred to as the *structure* of a decision problem, is concerned with the extent to which managers facing decisions have a complete understanding of the factors that have a bearing on the situations they faced. The concept is associated with Herbert Simon, a leading writer in management science and 1978 Nobel laureate in economics for his pioneering research into the decision-making process within economic organizations. It was Simon who first reflected on the degree of structure of decision situations. As Simon's thoughts gradually turned toward the power of computers and the potential
Programmability of Decision Making

of artificial intelligence (a field that he contributed to establishing), he introduced the oft-quoted distinction between programmed decision and nonprogrammed decision. Simon’s reflection was guided by the idea that organizations, like computers, are systems designed for “complex information processing.” Thus, programmed decisions can be coded in computer programs or other programs that are computerizable, while nonprogrammed decisions must be treated as “problem solving” and therefore are not amenable to processing by computer systems to any extent. This entry considers the richness of the concept of programmability of decisions and its implications for research and practice in a number of areas.

Fundamentals

Simon’s basic scientific progress must be viewed in terms of his attempt to study the manager as a decision maker. In seeking to theorize about managerial decision making, Simon initially discussed the difference between facts and values. Facts can be verified or falsified, whereas values are the objectives of the decision maker and, beyond this, his or her actual wishes. This is important for both research and practice because it indicates that decisions made by managers can be evaluated properly only when the objectives of the decision maker are known. Thus, to evaluate the quality of a decision, researchers must know the utility of the decision maker and understand his or her preferences and expectations in terms of the probabilities of future events. These factors are directly related to the degree to which a decision problem can or cannot be programmed.

Simon also observed that the problems that managers faced and that are found to trigger decision-making processes are not facts but constructs: They do not present themselves “carefully wrapped in bundles.” There are basic uncertainties relating to the cause-and-effect relationship between the key factors in the analysis of these problems as well as in their solution. Second, Simon observed that decision “is a matter of compromise”; that is, all decision makers have several more or less contradictory objectives in mind.

James D. Thompson and A. Tuden have formalized this issue in their influential model that classified uncertainty in decision making based on how well managers understand how the world works on the one hand and on whether managers agree among themselves about the objectives they pursue on the other hand. They presented their model as a two-by-two matrix, where both above dimensions—ambiguity of objectives and uncertainty of cause and effect—can be either high or low, thereby distinguishing between decisions by computation (most certain), decisions by judgment, decisions by compromise, and decisions by inspiration (least certain).

As technology and in particular, computing technology developed, Simon started to consider the potential impact of computational devices on decision making. It was then, in his seminal 1977 book The New Science of Management Decisions that he proposed the distinction between programmed and nonprogrammed decisions:

Decisions are programmed to the extent that they are repetitive and routine, to the extent that a definite procedure has been worked out for handling them so that they don’t have to be treated from scratch each time they occur. (p. 46)

On the other hand, decisions are nonprogrammed “to the extent that they are novel, unstructured and unusually consequential” (p. 46). Organizations, like computers, are systems designed for “complex information processing,” and information processing by human operators, organizations or computers is a fundamental aspect of management. Programmed decisions obey computer programs or other programs that are computerizable, while nonprogrammed decisions come under the heading of problem solving.

Importance

In addition to Simon’s framework, alternative theories have been proposed to model managers’ understanding of the problems they face and the extent to which it may be possible to model them in a decision support application. Among these, the representation-level model proposed in 1989 by Patrick Humphreys is a top-down process whereby the structuration of the concepts manipulated by managers is refined from one level to the next over time, as a function of which additional information is available or as a function of definitive choices having been made in terms of manager’s and organizations’ preferences (as in Thompson and Tuden). As such,
the Humphreys framework constitutes an alternative to Simon’s conception of programmability.

Humphreys proposes to represent the extent to which managers understand the problems they face in terms of (a) the degree of abstraction in the representation managers have about the problems to be tackled and (b) the degree of formalization in the representations of proposed solutions and models to be applied to finding solutions.

**Level 1:** At the highest level, representations are mainly cultural and psychological; managers are more or less aware of what a problem involves, but its expression is mostly beyond language. It is at this level that the problem is shaped, and one can wonder whether representations at this level are beyond any modeling endeavor and therefore whether they are way beyond decision support.

**Level 2:** At this level, the representations become explicit, and the problem can be broken down into a number of subproblems, some of which can be formalized. The structuration of the problems is still partial rather than detailed, and managers refer to “the marketing function” or “the marketing process” without being able to formalize processes in greater detail. Data mining may be used at this level as a way to help formalize ideas to a greater extent and to test hypotheses. Some premodels maybe developed in broad terms by managers, but it is still difficult for them to discuss these with analysts.

**Level 3:** At this level, decision makers are able to define the structure of the problems they must solve. They are able to put forward models that can be used for the investigation of the alternatives they will pursue and discuss these with analysts; these discussions can then be used to develop small applications leveraging online analytical processing (OLAP) tools or multidimensional tools.

**Level 4:** At this level, decision makers are able to perform sensitivity analysis with the models they have defined in the previous stage so as to determine which input values are the most suitable; saved searches and saved views created using scrutinizing tools can become increasingly formalized over time and progress toward increased specification from Level 3 to Level 4.

**Level 5:** Finally, at the lowest level, managers can decide on the most suitable values, and the representation of the problem they must solve is stable and fully operational. At that stage, report templates can be created, based on which regular or ad hoc reports will be made available to managers with minimum effort or time required.

Notwithstanding, one key dimension of the application of the concept of programmability is how it must take into account that the programmability of a decision problem is not universal. On the one hand, organizations can learn about the problems they face and may therefore be able to resolve the uncertainty inherent in them to some degree, giving rise to the notion of a semi-programmable or semi-structured problem. On the other hand, depending on market conditions and competitive position of the firm, certain categories of problems may be more or less programmable for different managers in different firms. It is therefore important, in applying the concept of programmability, to understand where, when, and how the uncertainty arises that makes problems complex to solve.

Over time, through organizational learning, it is expected that problems should travel from the unstructured toward the structured as managers learn how to solve them. Ultimately, whether problems become programmable or not, the quality and speed of the organization’s response will improve as routines emerge and then become institutionalized in the organization. At the core of these routines, decision support systems (DSS) or business intelligence (BI) tools may be developed to provide managers with the information they need to make rapid and robust decisions.

There is, however, one potential danger if firms push the routinization of their decision-making practices to an excessive degree. It has been noted that any form of modeling involves the simplification of some of the factors inherent in the decision. For instance, some element of prediction/forecast may be introduced, and it is critical that managers remember that the predictions or assumptions built into the models they are using (for instance, in the form of a DSS application—even a spreadsheet) are only assumptions about the future that may not come to pass. Thus, rationalizing decisions is a good thing when it makes the firm quicker and more responsive to its environment, but it becomes a bad thing when it is used to mask the uncertainties in the firm’s environment. Sidney G. Winter has made such observations about what he terms *mechanistic*
Prospect Theory

In the last half of the 20th century, a plethora of papers demonstrated that the expected utility model did not adequately explain the choices of experimental subjects facing risky choices. In a typical study, a subject chooses between a prospect (alternative involving more than one potential outcome) offering a 0.5 chance of gaining $10 and a 0.5 chance of losing $5, and a prospect offering a certain $3. In 1979, Daniel Kahneman and Amos Tversky proposed a general model, termed *prospect theory*, that captures the main features of the experimental results. Prospect theory predicts individuals’ choices when faced with well-defined prospects that include uncertain outcomes. The theory encompasses the results of a number of experiments in which individuals made such choices. Management papers have used prospect theory to explain a wide variety of managerial and organizational decisions. This entry examines the principles, extensions, and applications of prospect theory. A detailed description of the theory is followed by a section describing the roots of the theory and a later version of it, termed *cumulative prospect theory*. The entry concludes with a discussion of the application of prospect theory to strategic decision making.

**Fundamentals**

Prospect theory predicts individual decision making under risk. It originally applied to relatively simple problems with monetary outcomes, stated probabilities, and two prospects. Prospect theory
conceptualizes choice using two phases. In the first, “editing” phase, the subject simplifies the prospects or prospects facing the decision maker. Then in the “evaluation” phase, the decision maker chooses between the prospects. As with many theories, we should view this theory as saying people act as if they operate according to these stages, not that they actually calculate in such stages.

The Editing Phase

The simplification of prospects in the editing phase occurs through four major operations: coding, combination, segregation, and cancellation. In **coding**, the subject subtracts a reference point from the gamble’s potential outcomes, making them into a series of gains or losses with respect to the reference point. The wording of the problem and the decision maker’s expectations can influence the reference point and, consequently, the coding of outcomes as gains or losses. **Combination** refers to the simplification of prospects by combining the probabilities associated with identical outcomes. **Segregation** refers to the simplification of prospects by separating out a riskless component from a risky component. While coding, combination, and segregation apply to each prospect separately, the final operation, cancellation, applies to a set of two or more prospects. **Cancellation** occurs when decision makers ignore components common to the prospects, discard common outcome probability pairs, round up probabilities or outcomes, or discard extremely unlikely or dominated outcomes.

While the editing phase simplifies the choice problem for the decision maker, it can also result in inconsistent preferences. For example, differences in presentation of the problem that do not influence the actual gambles can influence coding. Experiments often do this by changing the reference point without changing the probabilities or potential outcomes.

The Evaluation Phase

The evaluation phase begins with the decision maker implicitly assigning subjective values to the edited prospects ($\nu(x)$ and $\nu(y)$), and transforming the prospect’s probabilities ($p$ and $q$) into decision weights ($\pi(p)$). The subject multiplies the values of the prospects by the associated decision weights and sums over then-potential outcomes associated with a given prospect. The subject chooses the prospect with the highest sum (total Value, denoted by $V$).

For a prospect with one positive and one negative potential outcome ($x$ with probability $p$ and $y$ with probability $q$), the value thus is this:

$$V(x, p; y, q) = \pi(p)\nu(x) + \pi(q)\nu(y)$$

where the value of a zero outcome is zero, the probability weight for a prospect with zero probability is 0 ($\pi(0) = 0$), and the probability weight for a certainty (probability of 1) is 1 ($\pi(1) = 1$).

This equation resembles its precursor, expected utility theory. Like expected utility theory, the value (utility) of a prospect equals a sum of the weighted values (utilities) of the different potential outcomes of the alternative. However, the model differs from expected utility in several ways. Unlike expected utility theory, the probability weights depend on, but in general are not equal to, the probabilities associated with the different outcomes. In addition, while expected utility theory assumes that value attaches to the final states of the decision maker (which includes his or her previous wealth or assets), prospect theory assumes that value is associated with changes from the decision maker’s reference point. The value function has a different curvature for outcomes above the reference point than for outcomes below the reference point. In practical terms, this means that decision makers dislike losses more than they like gains.

In addition to regular prospects, prospect theory can apply to strictly positive (all potential outcomes positive) or strictly negative (all potential outcomes negative) prospects. The equation for these prospects is slightly different. For these prospects, in the editing phase, decision makers recode the prospects into a riskless component (the minimum gain or loss that will accrue for sure) and a risky component (the additional gain or loss, over and above the minimum gain or loss, that could accrue). Similar to a regular prospect, the value of a strictly positive or strictly negative prospect is the weighted sum of the values of their components.

We now examine the two components that determine the value of the prospect—namely, the value function and the weighting function, in more detail.

The Value Function

Kahneman and Tversky proposed that the value function is (1) defined on deviations from the
reference point; (2) generally concave for gains and convex for losses, reflecting risk aversion for potential outcomes above the reference point and risk seeking below; and (3) steeper for losses than for gains, reflecting the finding that people dislike losing money more than gaining an equivalent sum. They proposed a hypothetical S-shaped value function that fits these three properties and takes the following general form:

### The Weighting Function

The decision weights in the equation for prospect theory are not the same as the probabilities that the outcomes associated with a prospect will occur. Rather, they measure the impact of the uncertainty of events on the desirability of prospects. In other words, \( \pi(p) \) does not necessarily equal \( p \); a gamble with a 0.50 probability of winning a certain amount of money will likely be given a smaller weight than 0.50. In addition, an impossible outcome is ignored, and a certain outcome is given a weight of 1.

Kahneman and Tversky proposed a hypothetical weighting function that has several noteworthy properties. Away from the endpoints, the weighting function is relatively linear but the weights generally are less than the probabilities. Close to the end points, however, the function is curved. For extremely low probabilities, the weight may exceed the probability until the subject reaches a probability at which the outcome is coded as probability zero.

This is consistent with findings that indicate that highly unlikely events are either ignored or overweighted and that individuals tend to either neglect or overemphasize the difference between high probability and certain events.

### Evolution

Prospect theory is best viewed against the backdrop of expected utility theory. Specifically, expected utility theory states the following:

a. The overall utility of a prospect equals the utility of its potential outcomes weighted by their probabilities. Returning to our subject choosing between one alternative offering a 0.5 chance of gaining $10 and a 0.5 chance of losing $5 and an alternative offering a certain $3, in expected utility, the subject chooses the course of action with the highest expected utility where the utility of the certain $3 is \( U(3) \) and the utility of the prospect is \( (U(10) \times 0.5) + (U(-5) \times 0.5) \).

b. Utility depends on the final outcome of a series of gambles. For example, in the gamble above, if the experimenter said the subject would receive $5 and then face the choice, the outcomes considered would be the utilities of $8 ($3 + $5), $15 ($10 + 5) and $0 (i.e., $-5 + $5).

c. While the theory allows for individual variation in curvature of utility functions, most applications of expected utility theory assume concave utility functions. A concave utility function means people are risk averse, preferring a certain prospect to a risky prospect with the same expected value as the certain prospect.

In 1979, Kahneman and Tversky cited research demonstrating that individuals’ choices in the experiments deviated from expected utility theory predictions in four specific ways.

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**Figure 1** Hypothetical Value Function

on their distinguishing characteristics. This can lead to inconsistent preferences because subjects may decompose a prospect into shared and unique components in different ways; differences in decomposition can lead to difference in choices. In our gamble above, a subject given $5 before the gamble would ignore the $5 and code the gamble as having a positive and a negative potential outcome, whereas faced with the substantively identical gamble that added $5 to each potential outcome, the subject would code all the outcomes as positive. 

**The certainty effect:** Contrary to the expected utility theory formulation that individuals weight individual outcomes by their probabilities to calculate the overall utility of an outcome, people systematically underweight risky outcomes relative to certain ones.

**The reflection effect:** Subjects are generally risk seeking for gambles with strictly positive outcomes and risk avoiding for gambles with strictly negative outcomes. In the model, this occurs because the function assigning values to outcomes (termed a value function to distinguish it from the utility function in expected utility theory) is not always concave; that is, people are not always risk averse or always risk seeking.

### Cumulative Prospect Theory

In 1992, Tversky and Kahneman proposed a new version of prospect theory called **cumulative prospect theory.** Unlike prospect theory, which applies only to two-outcome prospects, cumulative prospect theory applies to prospects with any number of outcomes and allows different weighting functions for gains and for losses. Cumulative prospect theory also uses cumulative instead of separable decision weights for outcomes.

In 2010, Philip Bromiley plotted a value function based on Tversky and Kahneman’s formulation, with their exact parameter values. His plot suggests two critical features of the value function. First, the value function has a substantial kink or curvature at zero (where the value of the gamble equals the reference point); this kink at zero represents substantial risk aversion. For prospects with both positive and negative outcomes, the value function predicts extreme risk aversion. Philip Bromiley also found that prospect theory is consistent with a wide variety of risk preference patterns, depending on the values of the parameters and the part of the x-axis examined. For the most part, to derive predictions of risk preferences from prospect theory requires full specification of the parameters and potential outcomes.

### Importance

Scholars from a variety of disciplines, including management, operations, behavioral economics, decision theory, and psychology, have used and extended prospect theory in an attempt to understand individual choices under uncertainty. Studies range from those that develop better measures of loss aversion to those that examine the context in which prospect theory is valid. For example, in a 1996 study, Eric Kessler and colleagues found that decision objects’ valence (i.e., intrinsic attractiveness or unattractiveness) moderates the relationship between frame of reference and risk preferences. Individuals are risk averse when faced with value-increasing contingencies and risk seeking when faced with value-decreasing contingencies.

In 2011, R. Michael Holmes and colleagues reviewed a number of studies that apply prospect theory to managerial issues. They classify these studies into two groups: studies that use prospect theory to predict decisions and behaviors of individual managers and studies that apply prospect theory to explain organizational level variables. Studies in the first group cover managerial decisions in a wide variety of contexts, including compensation, negotiations, motivation, and human resource management issues. Studies in the second group use prospect theory to predict, among other things, relations between firm risk and return, firm investments in innovation, and firm acquisitions and divestitures.

The usefulness of prospect theory to managerial decision making lies perhaps not so much in its formal statement as in its key insights relating to risk taking under conditions of uncertainty. As a number of studies demonstrate, prospect theory (sometimes in combination with other organizational theories) can provide a reasonable explanation for a wide variety of organizational decisions such as those related to new product investments, divestment, exploitation and exploration. At the same time, some scholars have critiqued the use of prospect theory in the latter group of studies, given that prospect theory was not originally developed to explain individual decisions and risk preferences and not organizational decisions. In addition, Philip
Bromiley demonstrates that most strategic management studies consider only the value function’s impact, ignoring the probability weighting function, and test predictions that apply only to choices with either all positive or all negative outcomes, whereas most strategic decisions would qualify as mixed gambles (having positive and negative potential outcomes).

However, these academic debates should not obfuscate the potential value of prospect theory’s general arguments for practicing managers. Prospect theory, and a substantial experimental literature in psychology, suggests that individuals are far more likely to take risks when they perceive a future that lies below some reference point. Vice versa, individuals perceiving that the future is above the reference point generally take fewer risks.

These arguments have immediate implications for the design of incentive systems. Depending on the details of the system, and the actual outcomes on which the system bases incentives, managers could find themselves facing incentive systems that they view as largely offering gains or different levels of loss. As Robert Wiseman and Luis Gomez-Mejia argue, such framing should strongly influence managerial reactions to incentive systems.

These framing issues could also come into play at the corporate level. Top managements that see largely negative future outcomes probably tend to take riskier actions than top managements that perceive positive future outcomes. When a project or acquisition has gone poorly, managers may see most of the potential outcomes as negative, which may encourage further, often unwise, risk taking in the form of additional investment.

The use of prospect theory in organizational contexts raises a number of questions regarding the determination of the reference point, measurement of risk, and the distinctiveness of the predictions of the theory—especially as compared with other theories of organizational choice such as the behavioral theory of the firm. These are promising avenues for future research in this area.

Philip Bromiley and Devaki Rau

Further Readings

PROTEAN AND BOUNDARYLESS CAREERS

The protean and boundaryless career conceptualizations of careers are used to inform the trend in self-management of the career. Earlier career theories focused on adult development and linear advancement in organizations. Donald Super and Daniel Levinson, for example, presented models describing career and life stage models of development that were seen as applicable across genders and work contexts. The combination of factors such as a more diverse workforce that includes career-focused women in much greater numbers and the new global economic environment has brought greater attention to individual management of the career. Earlier career theories have fallen short in capturing the mobility and psychological dynamics of career management in the contemporary work environment where lifetime employment in one organization, or even one industry, is becoming rare. Individuals are often not afforded the opportunity of career development or career management from organizations. This entry provides an overview of the protean and boundaryless models and discusses how they provide overlapping and complementary views of the self-managed career.

See also Behavioral Theory of the Firm; Bounded Rationality and Satisficing (Behavioral Decision-Making Model); Escalation of Commitment; Managerial Decision Biases; Strategic Decision Making; “Unstructured” Decision Making
Fundamentals

Original conceptualizations of protean and boundaryless careers took different perspectives on careers. The protean career concept focuses on the individual's motives and abilities to adapt to a changing environment. The notion of a boundaryless career takes a slightly different view by focusing on the aspects of the environment that are defining the career.

The metaphor of the Greek god Proteus who could change shape at will underlies the concept of the protean career. Douglas Hall characterized the protean career as one in which the individual can adapt to a changing work environment by repackaging or developing new knowledge, skills, and abilities. The protean careerist maintains marketability by being flexible and having a career management attitude focused on personal values and self-direction. This person is seen as less likely to be bound by organizational structures or direction and more likely to design a personal career trajectory. In short, an individual with a protean career orientation takes responsibility for navigating his or her career.

Observing the changing nature of careers, Michael Arthur and Denise Rousseau presented an emerging model of career experiences that they called a boundaryless career. According to Arthur and Rousseau, a boundaryless career can differ from the traditional organizational career in six ways that characterize independence from rather than dependence on traditional organizational career arrangements: (1) career experiences across employers, (2) validation and marketability from outside the organization (e.g., academics or carpenters), (3) external networks or information sustain the career (e.g., a real estate agent), (4) traditional organizational career boundaries such as hierarchical and advancement principles are broken, (5) rejection of career opportunities for personal or family reasons, and (6) perception of a boundaryless future regardless of structural constraints. As articulated, the boundaryless career is seen as different from traditional organizational careers in physical mobility both across and within organizations. Boundaryless careers also differ from traditional organizational careers in the nature of employment relationships and role management. A reconceptualization of the boundaryless career by Sherry Sullivan and Michael Arthur portrays the boundaryless career as defined by mobility along the two continua of physical career mobility and psychological career mobility.

Both the protean and boundaryless career concepts are used to explore the changing nature of careers, career management, and related individual and organizational outcomes. Simply, the boundaryless career provides a framework for investigating how careers are changing and the resulting effects on performance, satisfaction, and other outcomes. The protean career offers a framework for examining how and why an individual adapts to the changing environment and the implications of an individual's protean career orientation on career success and/or satisfaction.

Currently, two scales for measuring an individual's protean career orientation have been developed through validation studies. Jon Briscoe and Douglas Hall developed a 14-item scale of the protean career orientation that measures the two dimensions of value-driven and self-directed career management. Yehuda Baruch developed a 7-item scale to measure the protean career orientation more generally. Earlier measures of the boundaryless career focused on whether or not the boundaryless career exists based on the original conceptualization of Arthur and Rousseau. The reconceptualization of the boundaryless career by Sherry Sullivan and Michael Arthur extended the boundaryless career concept to include what is referred to as a boundaryless career mind-set, the degree to which the person desires physical career mobility and/or psychological career mobility. This has facilitated the development of a scaled measurement of the boundaryless career. Jon Briscoe and Douglas Hall developed a 13-item scale to measure these two dimensions of the boundaryless career mind-set.

A series of three studies to explore the distinctiveness of the protean career orientation and the boundaryless career mind-set were conducted by Jon Briscoe, Douglas Hall, and Rachel Frautschy DeMuth. They found that the protean and boundaryless careers as measured by attitudes, not behavior, were distinct but related. These two models of careers are still developing as concepts and in the way they are measured and combined to study careers.

Practical Applications

The protean and boundaryless career theories offer practical applications for both individuals and organizations. Individuals are cautioned not to rely
on others for direction and development. Rather, these theories suggest that a career can be and, more often, should be self-managed. Workers are advised to develop a mind-set and attitudes toward work and career that makes one more adaptable. The more one becomes adaptable, the more career paths and career opportunities will be available.

Managers charged with succession planning, training, or work policies find wise advice from these theories. Foremost, more options for how work is done is advised. Some will still prefer the linear career, but given the challenges of non-work-related commitments facing an increasing number of valued workers, flexible work arrangements such as part-time work and working from home should be a staple offering of organizations when possible. Managers should listen to the desires and needs of employees to generate creative career paths and jobs that will be more fulfilling for workers and better for the organization because fulfilled workers tend to be more committed and productive. Finally, managers are cautioned not to label employees. An individual’s concept of career may change with time so career development opportunities should evaluated frequently.

Susan M. Adams

See also Career Stages and Anchors; Individual Values; Psychological Contract Theory; Role Theory; Self-Concept and the Theory of Self; Self-Determination Theory

Further Readings


PSYCHOLOGICAL CONTRACT THEORY

According to psychological contract theory (PCT), psychological contracts are individual-level cognitive structures that reflect how people think about their exchange relationships. More specifically, a psychological contract is individuals’ systems of beliefs regarding the obligations that exist between themselves and exchange partners. Such obligations motivate current judgment and behavior through anticipation of the exchange’s future. Psychological contracts are important to management scholars and practitioners because they influence how individuals think, feel, and behave in organizations, thus providing the basis for coordination and cooperation among employees, managers, executives, and business owners. This entry begins with a description of the fundamental tenets of PCT and is followed by a discussion of the historical roots and later significant contributions that led to current-day understanding. Empirical support for the theoretical propositions of PCT is then reviewed, and the practical implications of psychological contracts for management are discussed.

Fundamentals

Generally, a psychological contract represents any exchange relationship wherein two parties trade things of value. Applications of PCT exist in online marketing, distributor-supplier relations, information systems outsourcing, law, marital relations, and doctor-patient relations. The greatest theoretical and empirical attention has been directed at the employment relationship, particularly from the employee’s perspective, the focus of this entry.

Several theoretical domains influence PCT, including cognitive, social, and organizational
Psychological Contract Theory

Psychological Contract Theory (PCT) is a midrange theory that bridges broad theories such as social exchange and social information processing with more discrete theorizing about constructs like perceived organizational support (an employer’s contribution) and organizational commitment (an employee’s contribution). PCT is thus a midrange theory addressing how individuals’ beliefs influence their judgments, affect, and behavior in exchange arrangements.

PCT is related to, but distinct from, theorizing on general employee expectations. Although psychological contract beliefs can be influenced by pre-employment expectations, the psychological contract reflects a wider array of obligation-based beliefs, including perceived promises. As such, reactions to psychological contract breach (failure to fulfill psychological contract obligations) are theorized to be much stronger than are reactions to unmet expectations, an effect meta-analytic findings support. Breach (and its positive counterpart, psychological contract fulfillment) has stronger effects than do unmet expectations on job satisfaction, turnover intentions, and performance.

Content and Dynamics of the Theory

Psychological contract beliefs. Employees tend to join organizations with preconceived notions about their obligations (e.g., loyalty, operate in best interest of the company) and their employer’s obligations in return (e.g., skill development opportunities, a competitive wage). Perceived employer promises from recruiters and others impact the initial structure of the psychological contract. However, neither worker nor employer can spell out all the details of what might be an indefinite employment arrangement. As a result, psychological contracts tend to evolve over time as a function of new salient information. Recruiting practices generally have less impact on employees’ psychological contracts than do their postentry experiences. As such, employees’ psychological contract beliefs can be influenced by various sources over the course of employment, including recruiters, supervisors, formal policy, human resource practices, and coworker experiences within the organization.

Whatever the source, fundamental to PCT is that psychological contract beliefs reflect perceived reciprocal obligations between the employee and the organization. In turn, these perceived obligations affect the parties’ feelings, attitudes, and behaviors toward each other. Types of psychological contract obligations can vary considerably across workers, firms, and even cultures. They can be limited to wholly economic terms as in a transactional psychological contract (e.g., an hourly wage for a temporary worker who ships packages over the holidays) or be as complex and broad as personal support and developmental investment as in a relational psychological contract (e.g., characteristic of high-involvement work by research and development scientists). Commonly, psychological contracts contain elements of each.

Regardless of content type, ideally, the psychological contract should be perceived as high in mutuality cognitive processes and revision as circumstances change. On-the-job experiences such as unexpected events (e.g., a surprise promotion or demotion) and observations (e.g., coworker experiences) can lead to new beliefs being integrated into an individual’s psychological contract to influence subsequent judgments and behavior. People must actively alter the way they think about the exchange in order to revise the psychological contract.

Underlying Rationale of Psychological Contract Theory

The qualities and dynamics of psychological contracts are rooted in psychological principles. Psychological contracts are developed through an individual’s social and organizational experiences. At the same time, their cognitive architecture is shaped by limitations in human cognitive capacity (i.e., bounded rationality). For instance, people can pay attention to only a portion of the information in their environments. They do so selectively, attending to highly salient or easily accessible information (e.g., employees tend to believe that their immediate manager speaks for the organization). They also tend to interpret events in a manner confirming their existing beliefs, thereby interpreting the exchange through the lens of their psychological contract. This makes the psychological contract a means of ensuring continuity and predictability in the employment relationship.

Psychological contracts are dynamic. Once formed, they tend to be relatively stable, operating at a high-order, subconscious level. Nevertheless, psychological contracts are subject to more systematic psychology, law, and economics. In organizational research, PCT is positioned between broad theories such as social exchange and social information processing and more discrete theorizing regarding constructs such as perceived organizational support (an employer’s contribution) and organizational commitment (an employee’s contribution). PCT is thus a midrange theory addressing how individuals’ beliefs influence their judgments, affect, and behavior in exchange arrangements.
(the parties hold common beliefs regarding contract obligations), reciprocity (the parties report commensurate obligations), and alignment (the psychological contract reflects balanced reciprocity between employee and employer obligations). These characteristics are associated with positive evaluations of psychological contract fulfillment and positive employee reactions. They can be cultivated through open communication and trust between the parties and by ensuring that contract-relevant signals are consistent. Creating and sustaining such psychological contracts remains an enduring organizational challenge.

**Psychological contract evaluation.** Emotional and attention-grabbing events trigger systematic, effortful cognitive processing. In particular, direct experiences with supervisors and managers are salient, providing contract-relevant information, from the enjoyment of promised recognition to the frustration experienced when promises go unfulfilled. Because psychological contracts unfold over repeated cycles of exchange, as a general principle, how exchange experiences are evaluated impacts the parties’ perceived future obligations. An employee who believes that the employer has fulfilled prior commitments is more likely to view his or her employment as having a relational focus (e.g., open-ended, socioemotional obligations), making him or her more likely to react positively to requests or opportunities to contribute to the employer in new ways. On the other hand, lower past fulfillment is likely to diminish subsequent feelings of obligation toward the other party, prompting revision of certain beliefs. Failure to meet one’s obligations typically increases the other’s suspicions and monitoring and as such, leads to a decline in the perceived value of the employment arrangement.

Evaluations of psychological contract fulfillment impact various employee attitudes, affect, and behaviors beyond its impact on future obligations. Generally speaking, psychological contract fulfillment is associated with positive outcomes, whereas psychological contract breach is related to negative outcomes for both employees and the firm. A psychological contract breach refers to the judgment that a party has failed to fulfill its obligations (e.g., an employer who fails to promote a high-performing worker after agreeing to do so). In itself, the experience of breach is not rare, as psychological contracts can be evaluated as having been unfulfilled in varying degrees. PCT distinguishes breach, the judgment of low contract fulfillment, from an act of “violation—that is, the willful failure to honor one’s commitments. Violation is associated with negative emotional reactions (e.g., anger, outrage, disappointment, frustration), collectively referred to as feelings of violation. Feelings of violation and breach, though interrelated, are distinct. The extent to which psychological contract breach results in feelings of violation depends on how individuals interpret the breach. When deemed under the control of the organization, breaches will be associated with strong feelings of violation.

Several factors influence perceptions of and reactions to psychological contract breach. First, breach tends to be more prevalent in employment arrangements with limited interactions between employee and organizational agents (as in a lack of socialization or mentoring activities). When left to learn about the organization from their peers more informally, incidences of breach tend to be greater. Second, breaches that engender emotions are more likely to be noticed, an effect associated with certain personality traits. Individuals higher in neuroticism or an external (rather than internal) locus of control tend to perceive higher levels of breach. Personality also plays a role in the severity of postbreach reactions. Individuals higher in equity sensitivity or internal locus of control tend to respond with stronger feelings of violation. Finally, certain factors within the control of the organization can mitigate reactions to breach. Cultivating high-quality socioemotional relationships, offering retribution in the form of idiosyncratic deals (e.g., special perks for that particular employee), and providing “social accounts” such as explanations justified by resource constraints, can all help reduce negative employee reactions to breach.

**Evolution**

Although ideas consistent with PCT can be traced back to the early 1900s (e.g., equilibrium theory, the contribution-inducements model), the first formal application of the psychological contract construct to organizational settings is credited to Chris Argyris in 1960. He used the term psychological work contract to describe an implicit agreement between employees and their foremen that, when honored by the foremen, ensured continued employee effort and
performance. Harry Levinson and colleagues subsequently defined the psychological contract as a series of mutual expectations, often implicit in nature, that governed relationships. Both Argyris and Levinson emphasized human needs as the primary driver of psychological contract processes and on maintaining positive well-being. Building on earlier work, Ed Schein offered predictions about the effects of a correspondence between employee and employer’s expectations (later empirically supported by John Kotter) and called attention to the employer’s perspective regarding the employment arrangement. Despite these initial developments, active research regarding the psychological contract did not commence until the construct was reconceptualized by Denise Rousseau in 1989.

Rousseau’s seminal article marks a transition in the development of the psychological contract construct and PCT. She defined the psychological contract as people’s beliefs regarding the terms and conditions of a reciprocal exchange agreement between themselves and another. Setting this conceptualization apart from earlier ones was her claim that psychological contract obligations were promissory in nature and that the exchange of these promises between employees and employers (not employee needs) was the driver for the development and maintenance of the psychological contract. Rousseau also cast psychological contracts as an individual-level phenomenon (making the construct more readily testable) and introduced the notion of psychological contract violation. Her 1995 book developed PCT more fully. This work coincided with significant change in employment reflecting the rise in global competition, economic deregulation, and a trend toward organizational restructuring and downsizing. The need to understand and manage such changes, coupled with Rousseau’s work on PCT, stimulated a flurry of empirical research and further theory building.

Much subsequent work on PCT has been survey based, predominantly from the employee perspective, and focused on contract content or the outcomes of breach. There remains inconsistency regarding the types of beliefs that constitute the psychological contract, particularly with regard to its operationalization in research. Some scholars have focused on promises, whereas others focus on non-promissory-based expectations or fail to distinguish clearly among promises, obligations, and expectations. Regardless, the distinction between relational and transactional contracts has garnered theoretical and empirical attention over the years. Researchers have examined theoretical predictions, often but not always supported, that relational contracts lead to more favorable outcomes than do transactional contracts. The transactional-relational distinction and its effect on important employee behaviors have been extended beyond North America to cultures such as China, Japan, and Singapore. Additionally, there has been widespread testing of Elizabeth Wolfe Morrison and Sandra Robinson’s 1997 model of psychological contract violation wherein the constructs of unmet expectations, psychological contract breach, and feelings of violation were distinguished. Propositions related to the mediating and moderating mechanisms put forth in their model have guided empirical work that culminated in a meta-analysis by Hao Zhao and colleagues, demonstrating the strong negative effects that breach of relational contracts have on employee affect, attitudes, and behaviors.

Other advances to PCT have occurred over the years. For instance, basic principles of social exchange theory (e.g., norm of reciprocity) and employment relationships in general have been integrated into psychological contract research. In a published exchange, David Guest and Denise Rousseau argued critically regarding tenets of PCT, pushing scholars to question and empirically test and thereby clarify its underlying assumptions. Violet Ho along with her colleagues expanded understanding of the key players of the psychological contract to include people other than the employee and employer. Specifically, a social network perspective has been found to inform how employees evaluate their psychological contract. J. Stuart Bunderson and Jeffrey Thompson expanded the relational versus transactional content focus of modern-day psychological contracts to include ideology, a dimension reflecting the obligation to act in accordance with core values (e.g., professionalism or socially responsible causes).

Neil Conway and Rob Briner undertook a critical review of the psychological contract literature. They questioned whether the beliefs making up the psychological contract are purely promissory, or whether they might also include expectations based on sources other than promises made by the employer. Expanding on Rousseau’s original work, research by Mark Roehling and by Samantha
Montes and David Zweig suggest that the beliefs that constitute the psychological contract may not be limited to perceived promises. Conway and Briner also called for research to begin examining psychological contracts as a process of reciprocal exchange. Researchers have begun examining changes in psychological contracts over time. As such, PCT is slated for further development as it incorporates new research findings.

**Importance**

Psychological contract research has largely supported PCT’s main propositions. Traditionally, it has relied on a narrow range of methods—that is, cross-sectional and survey-based. Concern exists regarding its conflicting measures of breach, use of difference scores versus direct measures of breach, and the confounded effects of promises and delivered inducements. Stronger methods are being introduced to the study of psychological contracts. Conway and Briner introduced the use of diary methods. Lisa Lambert has demonstrated the advantages of examining the separate and joint effects of promised and delivered inducements using sophisticated statistical methods. Researchers also have begun employing longitudinal designs to capture causal relations and changes in psychological contracts over time, and others have begun using experimental designs to test basic assumptions of PCT. Use of these advanced methodologies continues to improve the theoretical insights reported findings yield.

Once thought of as a useful heuristic to describe implicit employment agreements, the psychological contract and the theory it has spawned represent an evolving theoretical map to establishing and maintaining positive employee-employer relationships—and to identifying and overcoming dysfunctions in employment. The impact of PCT has been far-reaching in management training and practice in North America, Europe, and beyond. Textbooks in organizational behavior, marketing, and human resource management typically include sections devoted to the psychological contract to help management professionals understand the dynamics of exchange relationships and how employment relationships affect attitudes and behaviors within organizations. Educators and administrators use the construct of the psychological contract to describe and manage relationships among faculty, students, and staff within universities.

Perhaps because of professional education, increasing numbers of managers actively apply PCT to the workplace to establish clarity, manage expectations, foster positive relationships, and maintain positive attitudes and productive behaviors among employees. David E. Guest and Conway report that 36% of 1,300 human resources managers surveyed in the U.K. use the psychological contract as a tool in managing their employment relationships, and a full 90% agreed that it is a useful tool. PCT has helped managers understand that there is more to maintaining a positive relationship with employees than sheer economic exchange. Indeed, in times of economic crisis and belt-tightening, shifting promissory obligations from the more transactional to the more relational sort can help retain committed, high-performing employees while incurring lower overall costs. PCT also helps managers understand the impact of implied promises and the implications of failing to fulfill such promises. Concurrently, generational and societal changes are introducing new facets to the psychological contract of employment, building on worker concerns with life balance and the social consequences of their employer’s business strategy and actions.

Denise M. Rousseau, Maria Tomprou, and Samantha D. Montes

See also Human Resource Management Strategies; Leader–Member Exchange Theory; Organizational Socialization; Social Exchange Theory; Trust

Further Readings


**Psychological Type and Problem-Solving Styles**

Psychological type in its Myers Briggs Type Indicator (MBTI) sense is the most widely used applied personality theory and has been for many years. Over 2 million copies of the MBTI are completed each year, and it has been translated into over 30 languages, including Chinese. Among its many important management applications are leadership development and team-building programs. This entry is in two main sections. First, the central concepts of preference and type are defined and discussed, and second, the strong evidence for the validity of the preferences is touched on, with reference to five-factor or “Big Five” theory; the strengths and weaknesses of the preferences in problem solving are outlined; and a four-stage model of problem solving is presented and discussed.

**Fundamentals**

*The Concept of Preference*

Preference can be defined as “feeling most natural, energized, and comfortable with particular ways of behaving and experiencing.” At a general level, there is a strong relationship between preference and Alex Linley’s revival of the concept of strengths. However, there are many strengths and, in classical type theory, eight preferences. Like strengths, the preferences are predispositions and, in a good-enough environment, they are expressed more and thus develop more. Type theory is optimistic in this respect: It assumes that most people’s early lives encourage, or at least do not unduly discourage, development of their preferences.

Psychological type theory suggests eight preferences, organized in pairs. With a brief indication of their meanings, the preferences are for the following:

- Extraversion—more outgoing and active—versus Introversion—more reflective and reserved
- Sensing—more practical and interested in facts and details—versus Intuition—more interested in possibilities and an overview
- Thinking—more logical and reasoned—versus Feeling—more agreeable and appreciative
- Judging—more planning and coming to conclusions—versus Perceiving—more flexible and easy-going.

Self-assessment from these or longer descriptions will be tempting for many but should be done very provisionally. Accurate assessment can be straightforward, but it is best done with expert feedback or in experiential training in which groups of people with different preferences take part in exercises that illustrate type in action.

People generally behave in ways consistent with their preferences but can and do behave in the opposite way, though usually with more effort. If you prefer Extraversion to Introversion for example, then reading quietly and reflectively is likely to take more effort than being sociable, but most extraverts can reflect and most introverts can be sociable. Type theory assumes that people who do not express their preferences most of the time are less fulfilled and less effective than they would be as their real selves.

The positive tone of the descriptions of the preferences is radically different from that of five-factor theory. For example, the preferences for Judging and Perceiving are broadly parallel to the factor of conscientiousness. Scoring high on conscientiousness is generally regarded as positive, with terms such as *organized* and *decisive* being used as they are for the preference for Judging. In contrast, scoring low on conscientiousness is generally regarded as negative, with terms such as *aimless* and *weak-willed* being used. Perceiving, as indicated above, is described as
flexible and easygoing, which has a radically different tone, but could be describing the same behavior as the Big Five terms.

A controversial issue in psychological type theory is whether there are two further preferences. This possibility arises from a comparison with Big Five theory: four of the five factors map well onto the eight preferences. The fifth factor is called emotionally stable versus anxious or neurotic, and it has recently been reconceptualized, for example, by Daniel Nettle, in a way that allows it to be treated as a preference. This involves using more positive or at least neutral terms because the five factors each have a negative end and the preferences are all described positively. Accordingly, the factor of neuroticism can be renamed as a preference for Calm versus a preference for Worrying. Calm is in part about being bold and taking risks; Worrying about considering the worst possibilities and effects of an action.

The Concept of Psychological Type

In classical psychological type theory, there are 16 types—the 16 combinations of the four pairs of preferences. There is also a further level of the theory called type dynamics, which proposes a personality structure for each of the types. Specifically, it states that one of the four preferences for Sensing, Intuition, Thinking, and Feeling is like the managing director of the personality, another is like a personal assistant, and the opposite preference to the dominant managing director one is called the “inferior.”

This level of the theory is alluring and widely used. It is generally regarded as sophisticated and as explaining behavior that is out of character as well as some mysterious and problematic interactions between people. However, it is also a second controversial issue. First the term type is a problem because it sounds like stereotyping and gives a (misleading) impression of rigid “boxes.” More important, the validity of type dynamics is much less well supported empirically than the validity of the preferences.

The Ten Preferences and Problem-Solving Styles

Each preference can make a positive contribution to problem solving or has a distinctive approach to it that should be valued, as follows:

1. **Extraversion** by talking about problem, with or without others listening, in effect thinking (speculating) aloud

2. **Introversion** by reflecting privately and then sharing the considered results

3. **Sensing** by gathering facts, details, and evidence and a realistic, pragmatic perspective

4. **Intuition** by brainstorming alternative interpretations and possible solutions and bringing a more imaginative and optimistic perspective

5. **Thinking** by analyzing the consequences of solutions logically and objectively

6. **Feeling** by focusing on how the people affected by each solution are likely to react to it

7. **Judging** by deciding on the best solution and implementing it

8. **Perceiving** by exploring a variety of solutions and keeping the options open

9. **Worrying** by being cautious and suggesting the worst possible outcomes (these will probably seem unlikely and even absurd to people who prefer Calm).

10. **Calm** by being optimistic and suggesting risky strategies

Several of the preferences have weaknesses that are the opposite of their strengths or the result of lack of balance with the opposing preference. Thus, if Sensing is ignored or underused, there may not really be a problem to solve or the wrong problem may be tackled; if Intuition is underused, good options may be missed; if Thinking, Feeling, or Worrying are underused, or Calm overused, negative consequences are more likely; if Judging is overused, decisions and actions are more likely to be premature; and if Perceiving is overused, decisions and actions are more likely to be unduly delayed.

Importance

The validity of preference theory (but not type dynamics) is strongly supported by most of the research on five-factor theory. This research is extensive, of high quality (it has dominated the leading personality journals for many years), and shows significant relationships between personality and important outcomes in the real world, such as work performance and health. The effects are large in practical terms, comparable to those for cognitive ability. Where preference theory and five-factor
theory differ is in tone (as touched on earlier), versatility, and experience of application. In each respect, preference theory is currently stronger.

**A Four-Stage Model of Problem Solving**

The four-stage model is a simpler, applied version of the 10-preferences approach to problem solving. A perfect manager would be skilled at all of them. However, perfection in this sense is rare and most of us are more energized and at ease with one or more of the stages than the others. The model is as follows:

**Stage 1: Define the problem (Sensing).** What are the facts? (Have they been double-checked, particularly by someone with well-developed Sensing?) Is there really a problem? What has actually happened? If similar problems have occurred before, what solutions were tried? What resources are realistically available?

**Stage 2: Interpret the problem (Intuition).** In this stage, nothing is ruled out, however absurd it may seem. What ways of looking at this problem are there? What solutions are there? What theories or models might be relevant?

**Stage 3: Analyze the possible solutions (Thinking).** What are the arguments for and against each solution, short and long term?

**Stage 4: Assess the personal impact (Feeling).** What are the likely effects of each solution on the people affected by it (e.g., demoralizing or engaging)? How consistent is each solution with the organization’s values and philosophy?

For example, a car manufacturer was faced with a design fault in one of its models: When it was struck by another car from behind there was a small risk of its gasoline tank exploding. Thus the problem was clear enough and various solutions were explored. The cost of recalling all the cars was very high, much higher than settling claims with the few owners whose cars exploded. The company decided not to recall the cars, a rational decision based on short-term cost and ignoring broader ethical concerns as well as customers’ and potential customers’ feelings about the brand. Other companies faced with a similar problem have swiftly and expensively recalled their products, enhancing their reputations for integrity and customer care as a result.

In theory, good solutions therefore rest on (1) a realistic assessment of (and sometimes search for) the facts, (2) being open to a range of possible interpretations and solutions, (3) analyzing them incisively and (4) taking the impact on those people who are or may be affected into account. Each stage is vital. For example, the members of the management team in the example above may all have preferred Sensing and Thinking, and thus their approach to solving the problem was to gather the facts, analyze them, and make a logical decision. None of the team had developed their Stage 4 skills enough to influence the decision. They would have solved the problem better if one or more of them had developed Feeling enough or if they had consulted someone who had and respected their contribution—in other words, a training or selection issue or both.

Preferences and nonpreferences develop through practice, although with the proviso, central to type theory, that each person’s preferences have a higher potential or ceiling that with a normal upbringing, their preferences will develop more than their nonpreferences. In addition, some people develop their nonpreferences more than others develop their preferences. That is why it is unethical to state in an advertisement, as happened for an organizational psychologist post, that “ESTJs and people who do not know what that means need not apply.” ESTJ is shorthand for prefers Extraversion, Sensing, Thinking, and Judging and if the job required, say, skills associated with Intuition, then a particular ESTJ might have developed those skills more than any of the other candidates, including those who actually have a preference for Intuition. Asking for knowledge of psychological type theory is a much more defensible job criterion.

Generally, both preferences and nonpreferences develop through life experience, but deliberate attempts can be made to develop them too. For example, Sensing can be developed through practicing observation (including mindfulness techniques), Intuition through brainstorming and writing overviews, Thinking through designing flowcharts and doing cost-benefit analyses, and Feeling through clarifying values and practicing being empathic. However, accurate feedback is also needed, and the practice needs to be sustained and energizing to achieve a high level of expertise with any skill. This is a defining quality of strengths and preferences and implies that any one person cannot be and
do everything, that achieving the best solutions to problems involves recognizing and valuing all the preferences and resulting styles.

Rowan Bayne

See also Big-Five Personality Dimensions; Decision-Making Styles; Emotional and Social Intelligence; High-Performing Teams; Humanistic Management; Intuitive Decision Making; Participative Model of Decision Making; Trust

Further Readings


Punctuated Equilibrium Model

Change is ubiquitous and pervasive, often threatening the survival of organizations as well as entire industries. There are two primary competing theoretical perspectives outlining how organizations adapt to change. The first, based on the Darwinian model of evolution, argues that systems adapt gradually through a steady, cumulative incremental process. The alternate perspective, the “punctuated equilibrium model” (PEM) counters this claim of cumulative, consistent change and argues that the adaptation process is marked by long periods of incremental or evolutionary change “punctuated” by sudden bursts of radical or revolutionary change. In both cases, organizations compete for scarce resources from the environment, but the Darwinian model argues that the environment selects out organizations that do not adapt, whereas the PEM makes the case that organizations that make revolutionary or radical changes are better able to cope with the environmental changes. This entry will examine the unique characteristics of the PEM, contrast it with the Darwinian theory of evolution, and finally analyze how some industries, organizations, and groups develop mechanisms that enable them to cope with revolutionary changes and adapt to the environment.

Fundamentals

The term punctuated equilibrium, coined by biologists Niles Eldridge and Stephen Gould, has three basic concepts: stasis, punctuation, and dominant relative frequency. Stasis refers to a long period of relatively unchanged form, punctuation is a radical change over a short duration, and dominant relative frequency is the rate these events occur in a particular situation. Michael Tushman and Elaine Romanelli (at the macro level) along with Connie Gersick (at the micro level) propose that the main constructs that define the PEM are deep structures, equilibrium periods, and revolutionary periods.

Systems with a deep structure share two characteristics: (1) They have differentiated parts, and (2) the units that make up the system “work” by exchanging resources with the environment to maintain it. The deep structures are stable because the current choices and structures of the system are constrained by past actions, and the overall activity patterns reinforce the system as a whole through feedback loops. If the deep structure is synonymous with the game design and rules of play, the equilibrium period is similar to “a game in play.” Systems in equilibrium make incremental changes to compensate for internal and external perturbations without changing their deep structures.

There are three barriers to radical change that encourage systems to maintain their equilibrium position—cognition, motivation, and obligation. First, current frameworks cognitively limit the awareness of alternatives and consequently constrain behavior. Second, the uncertainty, fear of failure, and apprehension of change in the status quo prevents systems from adopting significant change.
Finally, systems are embedded in interdependent networks with resource relationships and obligations to current stakeholders that also inhibit their ability to change. These barriers prevent many large incumbent players from adapting when the dominant design or the industry standard for a technology changes. The last construct in the PEM is the revolutionary period. The difference between equilibrium and the revolutionary periods is that during the former, the deep structure is intact, and during the latter, the underlying structure is dismantled, changing the basic rules of play. For example, a change in the dominant design often creates disorganization and displaces many existing players and starts a revolutionary period. This dismantling destroys the existing system, resulting in the emergence of a new configuration with parts of the old system and some new pieces. The new configurations often emerge from new entrants from outside the industry who supplant the industry leaders.

What are some of the precursors to the revolutionary period? One is performance pressures, anticipated or actual, that can emerge from internal or external sources. The internal trigger is below-par financial performance over an extended period; the external triggers are competitive action and emergence of new technologies in the focal or neighboring industries or changes in the regulatory environment.

A second precursor is when organizational systems recognize they need to change the inertia of equilibrium by initiating radical change. Theorists propose that events themselves do not cause the change, but the timing of when an event occurs influences changes in the deep structure of a system.

The prevalence of the PEM has been demonstrated at multiple levels. At the industry level, deregulation and emergence of new technologies are some factors that fundamentally alter the deep structure of industries. Regulatory punctuations alter both technical and institutional features of industries by raising or lowering barriers to entry. For example, the deregulation of airlines in the 1970s and of telecommunications and financial services in the 1980s caused revolutionary periods that dismantled the deep structure of the industry. In each of these industries, the industry shakeout postderegulation was followed by a period when the surviving members within the industry adjusted to a period of relative stability. At the firm level, revolutionary periods occur when the strategy, structure, and culture of the company become misaligned. Some firms then revamp their approach by realigning strategy through revolutionary changes and adapting their structure and culture to the new competitive dynamics thereby leading to periods of relative stability. For example, if one examines Apple’s 32-year history, several periods of evolutionary change have been punctuated by discontinuous or revolutionary change. At the group level, the deep structure is defined by an integrated web of performance strategies, interaction patterns, and general assumptions toward its task and outside context. The PEM argues that work groups progress through two main phases separated by a transition period. Within each phase, groups approach their work using stable frameworks of assumptions. The transition period provides a limited opportunity for radical progress and quantum change.

The PEM attributes greater power to managers when compared to the Darwinian model, which is theoretically closer to population ecology or natural selection. The natural selection model claims that some organizational forms get selected out through a process of variation, selection, and retention. Selection occurs because the environment selects those entities that fit the resource base of the environmental niche, and retention involves the forces that perpetuate certain organizational forms. In this model, organizations are inert and destined to fail in the face of environmental change. The PEM views organizations as learning systems that can adapt to changing environmental contexts, making the case for managerial action. In groups, managers can also use formal control systems as levers to consistently manage evolutionary and revolutionary change. The control processes can act as agents for both intended change and autonomous emergent change.

The PEM emphasizes that organizations need to develop ambidexterity, which is the ability to simultaneously handle incremental, sustaining changes and radical, revolutionary changes. This creates a learning paradox for the organization that involves building on as well destroying the past to create the future. The executive leadership within the organization has to cultivate the capability to “manage organizational attention” so that it is not cognitively constrained and when radical changes are encountered in the environment, they can be made sense of and responded to adequately.
The insights from the PEM can/should be used by modern managers to help cultivate capabilities that involve managing the stasis during which time the cultivation of efficiency and the ability to institutionalize practices is key and managing revolutions where radical innovation and adaptive capabilities are the skills to be developed.

*Shanthi Gopalakrishnan*

See also Adaptive Structuration Theory; Continuous and Routinized Change; Group Punctuated Equilibrium Model; Organizational Ecology; Organizational Learning; Patterns of Innovation; Technological Discontinuities; Technology S-Curve

Further Readings


QUALITY CIRCLES

The systematic use of quality circles (QCs) began in Japan approximately 50 years ago. Since then, the method has been taken up in most of the world with varying results. The original purpose of the quality circles was that they should constitute training groups through which the participants could learn to use basic statistical tools. Nonetheless, in time, the activities more and more came to be aimed at improving the organizations’ processes, and they have been found to be particularly useful for this purpose. In this entry, the fundamentals of quality circles and the different member roles are described. Subsequently, their development in Japan and the West along with their connection to teamwork are discussed.

Fundamentals

In general, the Japanese scholar Kaoru Ishikawa is regarded as the father of quality circles. The term he used for them was quality control circles. He emphasized the following characteristics:

- The circle is a small group of people who perform quality control activities.
- The members participate on a voluntary basis.
- The members are recruited from the same workshop.
- The activities of the circle carry on continuously.
- The activities of the circle constitute an integrated part of the company-wide quality control activities.
- The activities include self-development, mutual development, control, and improvement within the workshop.
- Quality control techniques are used.
- All members participate actively.

The overall purpose of the quality circles is the improvement and development of the enterprise as a part of the company-wide quality control activities. Nevertheless, Ishikawa also held that the circles should respect humanity and build a happy, bright work environment that is worthwhile to participate in. Moreover, he argued that they should exercise human capabilities fully and eventually draw out infinite possibilities.

The main points that have been retained from Ishikawa’s work are that the participation should be voluntary and active and that the activities should continue for a fairly long time. In addition, the group should use improvement tools such as Ishikawa’s seven basic tools for quality and the seven new tools for improvement. The members of the quality circle are assigned different roles. Usually, the following roles are defined as follows:

The members. In the original quality circles the members were factory workers in industrial manufacturing. Since then, many different organizations from various sectors have started to use quality circles. This means that today the members can be employees with very different backgrounds and daily tasks. Furthermore, the original quality circles were always constituted of members from the same department. Lately, the use
of interdepartmental quality circles has become more and more common because problems in organizations are often complex and involve more than one department.

The moderator. This is the person leading the activities of the group. Usually, a manager of the participants is chosen as moderator. Nevertheless, trying other options is definitely worthwhile, in particular for interdepartmental quality circles. If the mission of the quality circle is to handle a specific problem, choosing someone who is especially knowledgeable regarding this problem area is normally suitable. However, the most important criteria regard the personality of the person in question. She or he should be a good leader with a high level of empathy and an ability to promote the effectiveness of the activities as well as the well-being of the participants.

The coordinator. This person is supposed to constitute the connecting link between the different quality circles as well as between them and management. Her or his responsibilities also include training of moderators, ensuring that the quality circles have sufficient resources, and providing general support. Consequently, the coordinator is a very important person since the most usual reason for lacking success in quality circle activities is that they tend to live a life of their own with limited influence on the overall performance of the organization. With a skilled coordinator who is supported by top management, this can be avoided.

The steering group. This is the unit that makes the overall decisions regarding the organization and running of the company-wide quality circle activities. The group should consist of representatives from top management.

In Japan, quality circles have been used continuously since the early 1960s. In the Western world, quality circles suddenly became very popular in the mid-1980s when Western industry tried hard to learn Japanese quality management methods to counter the competition from Japanese industry. However, the initial quality circles in Western industry showed mediocre results, and in many companies, they were abandoned. The reasons for this was that Western industry tended to use quality circles as a method in isolation while Japanese industry used them as an integrated part of a holistic quality management system also involving other techniques and models based on quality management values. When they were used in isolation quality circles received inadequate resources and limited authority. In addition, their missions were restricted and the interest from top management was small or nonexistent. In fact, support from top management has since been shown to be a key factor for the successful use of quality circles.

Over time, a number of Western organizations have realized the importance of using quality circles as a part of an integrated quality management system. This has led to an increase in usage in industry as well as in other sectors such as health care. If they are used in this way, quality circles are powerful tools for achieving profound quality improvements.

In addition to quality circles becoming more common, their principles are often taken up in other connections. Teams and teamwork have become increasingly common in all industries as well as in the public sector. Even when the term is not used, teamwork is often inspired by the principles of quality circles.

Stefan Lagrosen

See also Multicultural Work Teams; Quality Trilogy; Total Quality Management

Further Readings


QUALITY TRILOGY

Quality does not happen by accident. Rather, it is achieved through quality planning, quality control, and quality improvement. This concept is known
as the *quality trilogy* and was introduced by one of the leading gurus of quality management—Joseph M. Juran. According to Juran, quality planning establishes a capable system development plan to meet quality standards, quality control provides a monitoring process to take corrective actions when necessary, and quality improvement aims at finding better and more efficient ways of doing things. The research on quality trilogy is still evolving. The applications of quality trilogy on the evolving field of quality management and sustainability management are also explored in this entry.

**Fundamentals**

Competition is the order of the day in the corporate world today. Although businesses compete on several fronts, the essential features of management have always centered on customer needs and requirements. In a knowledge-based economy, customers expect firms to introduce better and cheaper products, offer higher service levels, reduce wastes, and provide job opportunities. The mission statements of business enterprises today often emphasize the need to create quality and value for the customer. In practice, a three-step quality management process that represents the quality trilogy is normally adopted in realizing such a goal:

- Planning for quality
- Identifying control activities and taking corrective actions in ensuring the performance of the system in question
- Introducing continuous improvement initiatives to create and maintain a more capable system.

The objective of planning for quality is to outline ways to “do the right things correctly” so that the cost of poor quality can be minimized. To ensure a stable system performance, executable control actions need to be taken based on the principles of quality assurance. The main function of continuous improvement is to find opportunities for enhancing system capabilities and subsequently achieving a better system performance. This practical engagement, known as *quality trilogy*, is one of Juran’s methods to tackle quality problems. The ultimate aim of this process is to achieve quality.

To many organizations, quality is conformance to specifications. To others, quality is in the eyes of the beholders. Quality means different things to different people. The most commonly stated quality definitions for tangible products are presented by James Robert Evans and W. M. Lindsay. They define product quality as a function of a specific, measurable variable that reflects differences in quantity of some product attributes such as the life span of a laptop battery. A somewhat different view of quality is *process centric*. A typical operations system today, as stated by Christian Madu and Chuhua Kuei, involves a variety of processes: customer engagement, manufacturing, and sourcing. With respect to each process, a unique set of attributes can contribute to what a customer perceives as quality. For example, as per Leonard Berry and A. Parasuraman, customer engagement quality consists of five dimensions: reliability, responsiveness, assurance, empathy, and tangibles. Gravin’s model can be adopted to represent dimensions of manufacturing quality. We can also use the 2009 model presented by Lars-Eric Gadde and Kajsa Hulthén to evaluate sourcing quality.

With this goal (product and/or process quality) in mind, businesses need to find proven paths to help find ways to structure, bundle, and leverage their resources and produce high-quality outputs and outcomes. It is apparent from Juran’s teachings that quality trilogy can maximize the likelihood of business success since it is a learning framework based on three critical steps: planning, controlling, and improving. Thus, the call for quality trilogy is not only good for maintaining a stable operation but is also good in finding new opportunities and improving the long-term capabilities of the operational system.

**Evolution**

Building a total quality system to deliver quality products and/or processes requires business vision and institutional expertise. The role of quality trilogy is critical in linking vision and institutional expertise. In other words, through quality planning efforts, quality control activities, and continuous improvement initiatives, it is possible that business vision and company mission can be conceptualized and institutional expertise can be monitored, developed, and improved over time. Major stages are reviewed as follows:

At the *planning* stage, policy and decision makers focus on the effects of quality planning and
organizing. They identify causes of poor quality and may use a variety of tools to analyze the causes. Standards and guidelines are then established on how to detect quality problems.

At the control stage, policy and decision makers pay attention to routine functions, control activities, and take corrective actions to ensure stable capabilities and to maintain a desired level of quality. The aim here is to ensure that the process is behaving as expected or what could be said to be under statistical quality or process control. Thus, the process is in conformance and will meet the expectations for precision and accuracy. Deviations observed from the process behavior may be due to chance or random occurrences.

At the improvement stage, policy and decision makers focus on innovative initiatives that would help to further improve on the process. Before continuous improvement can be initiated, the process must first be under statistical control. Thus, when the available feedback shows that the process is behaving as expected, it is then time to think about the smaller and incremental changes that would help to further improve the performance of the process. All these stages that make up the quality trilogy rely on the applications of proven methods. Such methods could be managerial or statistical in form.

In a similar fashion, perhaps the other best known mechanism is plan-do-study-act (PDSA). Oftentimes, the study is replaced with check. This method was introduced by Walter Shewhart but was made popular in 1993 by Edward Deming. The PDSA orchestrates the stages in planning for quality. The plan stage involves problem identification, brainstorming sessions, and use of tools such as flow charts to understand the process. The process is then implemented on a smaller scale rather than a large scale to avoid potential failures and associated consequences. The study part helps understand the process, addresses “what if” questions, learns from mistakes and errors observed, and uses the information to further improve on the product or process before embarking on a large-scale implementation. Once the large-scale process is implemented, frequent monitoring and collection of feedback is necessary to ensure that the process is still adequate and meeting expectations. At this stage, continuous improvement can be applied. However, when it is clear that the process is no longer able to meet expectations, breakthrough thinking or reengineering may become necessary. At this stage, continuous improvement will be a wasteful effort since it cannot revive a process that no longer meets the demands of the time.

Importance

The following sections apply the concepts of quality management and sustainability management to the concept of the quality trilogy.

Quality Management

Quality management involves providing enabling conditions and also mobilizing human resources to achieve quality. Organizational structure is important in achieving quality. For more than three decades, business professionals have been challenged to increase their focus on quality planning. Thus, how an organization is designed and the processes within the organization are associated with the level of quality that is attained. Process decisions often involve how tasks are performed, how work is done, policies and procedures that guide work, and all the steps to create value to satisfy the organization’s goals and needs. Processes must be managed effectively because they involve the operational procedures to create goods and services. Effective analysis of processes would help identify the causes of problems with the process and how process problems can be resolved. This phase of effective process diagnosis, cause-and-effect analysis, and problem identification and solution is known as quality planning.

Quality management aligns internal value chain activities with the purpose of achieving quality. Porter identified primary value chain activities to include inbound logistics, operations, outbound logistics, marketing and sales, and service. To enhance multiter, multilevel, and cross-functional performance quality, quality management scholars such as Deming and Juran contend that higher process control in an integrated format should be a norm, not an exception. The needs and wants of the customer may be understood by exploring the internal value chain activities. These activities could be used to set process goals with established standards and expectations. A control mechanism is then set up once standards are established and meaningful results are obtainable.
Quality management relies on continuous improvement efforts to achieve incremental improvements on a process that is relatively stable and performing as expected. The right things are done, and they are done right the first time. Thus, quality management encourages efficiency and effectiveness. Doing the right things requires effective leadership, policy deployment, process development, and practical engagement. Quality management thus serves as an input factor, and quality is the result. Although the creation of quality and value requires a set of appropriate and effective actions in the first place, one needs to follow a continuous improvement approach that is never ending. Effective quality management ensures that actions will be followed through to achieve the intended results.

**Sustainability Management**

Sustainability management (SM) is a competitive tool that companies employ today. Businesses need to differentiate their products and services from those of their competitors by offering considerable sustainability value. As a result, businesses today need to create an infrastructure of resource use (e.g., materials and energy) that meets the objectives of the triple bottom line by considering uncertainties in the natural system (e.g., ecological balance), social systems (e.g., social equity), and competitive forces. According to Jianguo Wu and Tong Wu, managers and business leaders in this era of sustainability are beginning to ask series questions at the planning stage based on the Bellagio principles of sustainable development. These questions include the following:

- What is my organization’s vision for sustainability?
- What are the guiding principles from a holistic perspective; that is, what are our beliefs with respect to the triple bottom line?
- Are we certain that our scope, statement of purpose, and analysis, from work contents to expected outcomes, are adequate?
- Can we clearly define our sustainability indicators and assessment criteria?
- Can we make our methods and data more accessible?
- Have we created an effective communication plan?
- Does the board participate in the transformation process?
- Do we have ongoing assessment plans on sustainability?
- Do we have institutional capacities and expertise to match the context outlined by the triple bottom line?

Planning for sustainability enables conditions and structures, leverages resources, and produces actionable plans through which organizations can develop their capabilities and sustainability at every stage—strategic, tactical, and operational.

At the control stage, policy and decision makers ascertain that a desired level of sustainability is achieved at all times. A performance framework with a specific set of sustainability indicators is therefore needed to guide the routine functions to achieve such a goal. Control is then possible through feedbacks on operations characteristics based on a predetermined performance-driven framework. Wu and Wu report that there are five such frameworks: (1) driving force-state-response (DSR), (2) theme-based, (3) capital-based, (4) integrated accounting, and (5) Bossel’s systems-based orientor theory. The DSR framework, used to guide the selection of sustainability indicators, was published in 1996 by the UN Commission on Sustainable Development (UNCSD). The theme-based framework offers indicators in four areas: social, environmental, economic, and institutional. The general areas of a capital-based framework may be divided into four main subareas: manufacturing capital, natural capital, human capital, and social capital. These four constituents of capital represent the wealth of an entity. A change in one form of capital might lead to a positive or negative change in others. The challenge from a control perspective is to find balance among these four forms of capital. Integrated accounting frameworks, such as the system of integrated environmental and economic accounting (SEEA), are used to develop data systems for measuring the interrelationship between the economic and environmental data. The emphasis is on both economic and environmental statistics and data analyses. If discrepancies are found when assessing the level and cost of emissions and other wastes along the product life cycle, for example, the control team can advise on the remedial actions to ensure that the standards are met. Bossel’s “orientor” framework suggests that seven basic factors must be satisfied to meet the challenges of any ecological
and socioeconomic systems: (1) existence (i.e., the compatibility between built systems and the normal environmental state), (2) effectiveness (i.e., doing the right things correctly given the scarce resources), (3) freedom of action (i.e., the system's ability to find paths to deal with environmental uncertainties), (4) security (i.e., the system capability to cope with effects of environmental variability in a robust manner), (5) adaptability (i.e., the system's ability to learn, adapt, and generate response strategies in the unpredictable and ever-changing “wants” of the stakeholders), (6) coexistence (i.e., the coexistence of all subsystems in their natural or social environments), and (7) psychological needs. There is a need to explore the implications of performance-driven frameworks and derive sustainability indicators from them. The objective of control activities based on a specific performance framework is to have in place a formal, structured approach that continuously surveys and monitors the capabilities of the firm in ensuring a desired level of sustainability. As a result, the primary deliverable here is a data system.

At the improvement stage, as a result of this recognition, policy and decision makers need to adjust and leverage the resources to the requirements of SM. Most important, they need to acknowledge the need to undergo a transformation from the traditional management approach to SM. The data system established at the control stage is central to this operation. The transformation in fact is driven by both the vision of the firm and the integrated sustainable development data analyses and reports from the control stage. Three areas will normally be impacted by the exercise of transformation: a system transformation process, working with suppliers, and a cultural transformation process. The unique feature of this continuous improvement effort is the cultural transformation process. It involves leadership, employee fulfillment, conflict management, individual learning, whole systems learning, and cultural acceptance. The incorporation of this “soft” component of continuous improvement and relevant interventions distinguishes this part from the control perspective. The changes, based on the essence of the transformation model, may lead to a new organization with new competencies for sustainability.

Christian N. Madu and Chuhua Kuei

See also Action Learning; Business Process Reengineering; Process Theories of Change; Quality Circles; Six Sigma

Further Readings


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**QUANTUM CHANGE**

Discussions of quantum change have been featured in the discourses of several theoretical disciplines, including, among others, biology, chemistry, and psychology. While the term has different emphases in each of these, it generally concerns some form of transformative event. In organizational studies, a quantum view of change is predominantly concerned with the relationship among an organization’s structure, strategy, and environment. It is grounded on the premise that organizational success will be achieved through the balancing of stability and change. An organization, under this scenario, is described as existing in a stable configuration of elements underpinned by a set of values that gives rise to a particular set of behaviors. These periods of stability are interrupted occasionally by some process of transformation—a quantum leap to another
configuration. Quantum change, therefore, is typically described as consisting of change to many elements of the organization very quickly or even simultaneously, in contrast to incremental change in which one element is altered at a time. Because a theory of quantum change is concerned with the problem of structural change, research has often focused on uncovering those structural elements or variables that experience change as the environment alters. Furthermore, because of the interdependence among these elements, some work has explored the links between the pace and sequence that change should follow to be successfully implemented. Given the globalized, hypercompetitive, and uncertain nature of the environment within which organizations operate, this theory is particularly relevant for change leaders as organizations are pressured to respond to fluctuations in their internal and external environments. Further, while change leaders may be reluctant to initiate quantum change because of the many difficulties inherent in introducing and implementing large-scale change, an organization’s survival is often predicated on its ability to negotiate some form of radical transformation. Indeed, while organizations tend to favor incremental change, the alteration of only some elements may destroy those complementarities associated with a specific configuration, which, in turn, will result in substantive operational difficulties. Thus, the theory of quantum change offers a useful lens through which change leaders can conceptualize and implement large-scale changes. First, with its approach of organizations as configurations, it provides a comprehensive framework for understanding how change unfolds, bringing together the cognitive school of change (how strategists think), the entrepreneurial school (how they act), and the cultural school (what they believe in). Further, it encourages change leaders to engage in a thorough analysis of internal and external environments so as to better evaluate the costs and benefits of engaging in quantum or incremental change. In the next section, we offer an examination of the major factors influencing quantum change and explicate the relationships between these factors. We further highlight related psychological and social dynamics and discuss some of the contextual and situational conditions that have been found to be key in either hindering or facilitating quantum change. We conclude with some implications and applications of our discussion.

**Fundamentals**

As we note above, a quantum view of change is primarily concerned with the relationship between an organization’s structure, strategy, and environment. From the classic Aston studies of the late 1960s to more contemporary work in the 2000s, organizational structure has been predominantly considered to involve the interrelationship among centralization, standardization/formalization, and specialization. Of particular interest has been how these elements position the organization to operate differently in different environments, often depending on imperatives such as technology or environmental uncertainty. In the early 1960s, Tom Burns and George MacPherson Stalker argued that organizations should be more mechanistic or organic, depending on the degree of environmental fluctuation. This early theorizing was built on the idea that organizations are composed of elements arranged in specific configurations. A configuration is not only expected to fit the organization’s environment, but it will also have major implications for the strategies available to it. However, because of the uncertain nature of the organization’s environment, changes in the environment will force the organization into considering the need to restructure in order to maintain fit. Such a restructuring can be carried out in one of two ways, either through quantum change where most elements of the structure will be altered in a concerted way, or incrementally, where only some elements will be changed at a time.

Danny Miller and Peter H. Friesen warn change managers against an incremental type of restructuring, indicating that such a process generates increased costs, disruptions, and risks. Their theorizing has two major elements of immediate relevance here. First, organizational coherence, or the patterning of component elements, is to be understood as forming an organization’s design. Understanding the parts of an organization can be gained only by examining how they interact together as a coherent whole. Second, the notion of configuration points to the highly interdependent nature of those elements and encourages a view of change whereby an alteration of one element of the structure will impact others that are mutually supportive. For Miller and Friesen, understanding which configuration an organization is in is crucial for understanding structural change and its difficulties. Indeed, the coherence of a configuration is not accidental; it represents
the appropriate design for adequate performance. Thus, according to this line of thought, when organizations respond to environmental fluctuations by selecting an incremental approach, they take the risk of destroying those complementarities.

Work on configurations led to the development of the concept of organizational archetypes, most influentially through the work of Bob Hinings and John L. Greenwood. Here, an important addition to the work on configurations was bringing in the central role of values, often articulated as an interpretive scheme, in underpinning structural design. The inclusion of values in the specification of organizational form pointed to a major reason why quantum change, articulated by Hinings and Greenwood as a shift from one archetype to another, is so difficult. The elements in an organization are not neutral or value free—they encapsulate preferences, embedded interests, and power arrangements that organization members will often strive hard to protect.

The work on configurations and archetypes suggests that long periods of relatively stable operation involving only incremental adjustments, interspersed by infrequent but revolutionary periods of quantum change, may be the most viable strategy for accomplishing large-scale change. Known as the punctuated equilibrium theory, this points to how overreliance on piecemeal change is likely to result in transforming an organization’s configuration in such a way that coherence will be lost. Change leaders will then have the option of either making other structural modifications to regain coherence or reverting back to the former structure. In both cases, costs and disruption are likely to be high. However, while change managers may be reluctant to select a quantum approach, the move from one configuration to another may be less likely to generate an incoherent design.

Others scholars have emphasized the importance of examining the pacing and sequencing of change processes and suggested that fast-paced change to key parts of the organization may be most important in the initial stages of a change program to generate early momentum. Following this, slower paced change that allows the development of trust and understanding among organization members may be more effective than trying to force through widespread changes quickly.

While this theoretical approach is very similar to the punctuated equilibrium approach of change, where organizations undergo occasional dramatic revolutions to overcome their tendency toward inertia, it departs from somewhat similar views of change such as organizational adaptation or contingency theory. Indeed, where organizational adaptation presents firms adjusting gradually and incrementally to changes in the environment, the quantum view, with its simultaneous focus on structure, strategy, and environment, concludes that certain environments might encourage revolutionary strategies, whereas others will call for evolutionary change. Similarly, a quantum theory of change, though it too embraces the ideal of environmental fit, breaks from the dominant contingency view by proffering a viewpoint that change should encompass all organizational elements, not simply those limited few on which performance is viewed to be contingent.

The quantum theory of change has provided unique insights into organizational change. However, Henry Mintzberg argues that the quantum theory of change is most applicable to large, established, mass-production organizations. Because they are so reliant on highly standardized procedures, they tend to be most resistant to large-scale change and are thus most amenable to long periods of relative stability punctuated by short bouts of large-scale transformation. Mintzberg further suggests that this approach is particularly well suited for organizations that are regularly challenged by their interaction with competitors and clients. However, other scholars have demonstrated that quantum change has relevance for public sector and other types of private sector organization beyond large manufacturing firms.

**Importance**

The quantum theory of change paved the way to classifying change processes on the basis of their provision of a shift to greater organizational coherence or departure from one archetype to another. Furthermore, while the previously dominant views of organizational change, largely centered on the contingency model, were guided by a rational paradigmatic approach that favored a view that changes in inputs produce linear, predictable changes in outputs, in contrast, a quantum view takes a nonlinear approach to change. As such, it perhaps offers a more realistic understanding of how change takes place. Indeed, the complexity of the change process and
Quantum Change

the interconnectedness of structural elements suggest that it is unlikely that change can be approached in a linear fashion whereby change in one element can neatly precede change in another.

In sum, the quantum view of change has encouraged management scholars and practitioners to adopt a holistic view of organization, one that focuses on organizational coherence. As such, it has provided important insights into how and when organizational change leaders should focus on incremental change versus how and when organizations should engage in quantum change. For instance, Miller suggested that organizations make substantial changes only when it is absolutely necessary or extremely advantageous for them to do so because of the disruption and risks associated with it. In other words, since change is disruptive, organizations will tend to cluster changes temporally to minimize or shorten the disruption, a pattern that has been found in several empirical studies. Thus, while much remains to be understood about the pace and sequence of quantum change, the theory offers a comprehensive view of change efforts, one that accounts simultaneously for the content (structural elements), context (internal and external environments), and the process through which quantum change should be carried out. Similarly, it has encouraged change managers to approach change in terms of costs versus benefits in their selection of a particular type of change.

Rachida Aïssaoui and John M. Amis

See also Contingency Theory; Logical Incrementalism; Organizational Structure and Design; Punctuated Equilibrium Model

Further Readings

REINFORCEMENT THEORY

Reinforcement theory is a learning theory that provides the foundation for behaviorist theories of motivation. It is based on the central tenet that a relatively permanent change in behavior is achieved from reinforced practice or experience. Reinforcement theory is often referred to as operant learning or operant conditioning, and it serves as the basis for the organizational behavior modification (OB Mod) movement. This entry, highlights the fundamentals of the theory, discusses various types of reinforcement (e.g., positive or negative) as well as schedules of reinforcement (e.g., continuous or intermittent), reviews the evolution of the theory, and addresses application for today’s organizations.

Fundamentals

At its most basic premise, reinforcement theory asserts that the causal agents of human action are found in the relationship between antecedents, behavior, and consequences (A-B-C). Antecedents are the environmental conditions upon which desired behavior occurs, and consequences act as reinforcers after the behavior is performed. The overarching principle is that behavior increases in strength and/or probability when followed by a reinforcer. Behavior with positive consequences tends to be repeated, whereas behavior with negative consequences tends to not be repeated. For example, managers often reward employees for good behavior and successful performance through the use of both social rewards (e.g., praise, recognition) and monetary rewards (e.g., salary, bonuses). Employees who engage in behavior that is not productive for the organization will not be rewarded or may potentially lose their jobs. Employee behavior is therefore a function of contingent consequences, or stimuli. There are four different approaches to applying stimuli: Two are used to strengthen the desired (or positive) behavior, and two are used to weaken undesired (or negative) behavior. B. F. Skinner’s research on operant conditioning in the early 20th century provided the foundation for understanding the various types and schedule of reinforcement.

Positive reinforcement. According to Skinner, a positive reinforcer is a stimulus which, when added to a situation, strengthens the probability of an operant response. Positive reinforcers are generally used to increase positive behavior. In a work setting, these may include praise and recognition, a promotion, or money. It should be noted, however, that positive reinforcers are not universal. What acts as a positive motivator for one person may not do so for another. In addition, the desired behavior must be achievable so that employees can meet their goals and objectives. Reinforcement cannot occur if the desired behavior does not happen. Skinner therefore described the importance of shaping behavior, or training, through a process of reinforcing positive behavior in graduated steps.

Avoidance learning. A second way to promote desired behavior is to remove unpleasant consequences when the behavior occurs. This may happen
Reinforcement Theory

by either preventing the onset of a negative consequence or by removing an unpleasant stimulus that already exists. An example of a negative stimulus in the workplace is supervisor criticism. A boss may berate his employee until the desired behavior is achieved. Most reinforcement theory advocates, however, prefer the use of positive reinforcement over avoidance learning.

**Extinction.** Extinction occurs when a positive reinforcer that has been used before is withheld or removed in order to weaken adverse behavior. The undesirable activity may continue for a while, but eventually the behavior should diminish and eventually stop if the positive reinforcer is withheld. Extinction may be most effective when undesirable behavior has been rewarded in the past. It is important for organizations to recognize that reinforcers often maintain the dysfunctional behavior of employees if reward systems are not designed with organizational goals in mind.

**Punishment.** Punishment is the application of an unpleasant consequence to stop or change undesirable behavior. It is often viewed as the harshest approach for behavior modification, but it can be effective in some situations. A waiter who provides bad service may not receive a tip from his customers, which is a punishment that may induce him to provide better service next time. At its most extreme, an employee could be suspended or terminated for dishonest behavior, such as stealing from the company.

The timing of reinforcement schedules may vary and as such can affect the desired outcome. Continuous reinforcement occurs when you apply the stimulus (whether positive or negative) each time the behavior is achieved. This approach promotes rapid learning and is often used during the initial stages of learning. While it may be an effective means to toilet train a child, it is generally not practical in an organizational setting where managers supervise many employees. Intermittent or partial reinforcement schedules are more common, where reinforcers are applied at some fixed or variable rate. This may lead to behavior that is less resistant to extinction.

In a fixed interval schedule, the behavior is rewarded after a specified amount of time has elapsed, and in a variable interval schedule, the behavior is rewarded after an unpredictable amount of time has passed. An example of a fixed interval schedule is an employee who gets paid on the same day every week, or every other week. This results in average or irregular performance. For example, performance may improve just before pay day. An example of a variable interval schedule is a bartender who relies on tips. Some customers will come in for a few quick drinks and leave a tip, whereas others may order the same number of drinks but linger over conversation before leaving a tip, or, leave no tip at all. The bartender is therefore incentivized to provide steady, consistent service.

Ratio schedules depend on the number of responses or occurrences of the behavior. With a fixed ratio schedule, the behavior is rewarded after a specified number of responses occur. For example, an employee who sells gym memberships may receive a bonus every time they sign up 10 customers. This may result in a slight dip in performance once the reward is received, but after a short time, the employee generally bounces back to a steady rate of response. When the employee is close to signing up that 10th customer, his performance may rise sharply. With a variable ratio schedule, the behavior is rewarded after a random number of responses occur. An example of the variable ratio schedule is a salesperson who works on commission. Some clients may require only two or three calls before a sale is made, whereas other customers may require 10 calls.

There are some general rules regarding reinforcement techniques in the workplace. First, it is important to differentiate rewards, or positive reinforcers, based on a performance standard. Ideally, the best performers should receive the greatest rewards. Rewards can and should come in different sizes and be contingent upon employee behavior. The most common type of reinforcer in the workplace is financial, which includes cash payments in the form of wages, salary or bonuses, prizes, time off, or paid vacation. In contrast, performance feedback is a nonfinancial reinforcer. To be most effective, feedback should be immediate, graphic, specific, and positively conveyed. Social reinforcement is one-on-one communication from boss to subordinate, consisting of compliments, praise, and recognition. Organizations often use a combination of these reinforcers.

Feedback is an essential part of the reinforcement process. Employees need to know what they are doing well and being rewarded for, as well as what they are doing wrong. Nonaction or neglecting
to respond to behavior may also have reinforcing consequences. These should be recognized and adjusted if necessary. Finally, if punishment must be used as a method of reinforcement, make sure the consequences are in balance with the behavior. For example, a factory employee who misses several shifts without excuse may be docked wages, but not necessarily fired. Also, never punish in front of others as there may be undesirable side effects.

Evolution

Reinforcement theory has roots in the early 1900s with the classic conditioning experiments of Ivan Pavlov and Edward Thorndike’s law of effect. The law of effect focuses on how the consequences of certain behavior will affect that behavior in the future. Behavior that results in a pleasant outcome is likely to be repeated, whereas behavior that results in an unpleasant outcome will likely not be repeated. In the 1940s, B. F. Skinner developed the operant conditioning theory largely based on the law of effect. He conducted extensive experiments using animals and his “Skinner box.” Within the box, Skinner could manipulate positive stimuli to act as reinforcers of good behavior, or, negative stimuli to act as punishers for bad or undesired behavior. For example, positive reinforcers might be a pellet of food, whereas a negative reinforcer, or punisher, might be a mild shock from the electrified floor. The process of changing the animal’s behavior through reinforcement is called operant conditioning. Skinner’s studies in operant conditioning laid the foundation for the types of reinforcers and schedules of reinforcement.

In the 1970s and 1980s, management scholars took reinforcement theory out of the laboratory and began to apply behavior modification techniques to the workplace. Drawing also from Albert Bandura’s social learning theory, Fred Luthans and Robert Kreitner developed the organizational behavior modification (OB Mod) model. They wrote that the underlying assumption of OB Mod, like reinforcement theory, is that behavior is a function of its contingent consequences. OB Mod consists of a systematic, analytical, and action-oriented approach to assess and modify employee behavior for performance improvement. The process can be summarized in five one-word steps: identify, measure, analyze, intervene, and evaluate.

A classic study at Emery Air Freight in the early 1970s illustrates the OB Mod process. First, managers must identify behaviors that can be changed. These should be observable, measurable, task related, and critical to the task. At Emery Air Freight, management wanted to encourage packers to use freight containers for grouping shipments together, which provided a significant cost savings to the organization. Second, the behaviors should be measured to find a baseline by which to assess improvement. This can be done with direct observation, a time-sampling technique, or by using archival data. At Emery, employees were asked how often they used containers and reported 90% of the time. Usage based on actual reports, however, was 45%. This provided a baseline upon which to improve.

Next, managers must analyze the behavioral antecedents and contingent consequences of the behavior. These need to be identified in order to ascertain what factors cue the behavior in the workplace and also to assess what the current reinforcing consequences are, in case these need to be changed. At Emery Air Freight, it was more time consuming to group shipments together in one container rather than ship them separately. An intervention is then applied to try and change the behavior, whether attempting to increase desirable behavior or decrease dysfunctional behavior. It is recommended that positive reinforcers be used to either increase functional behavior or extinguish dysfunctional behavior. Punishment should be used as a last resort. Management at Emery was able to change the dysfunctional behavior through a process of feedback and positive reinforcement with praise and recognition. Finally, the effectiveness of the intervention needs to be tested by evaluating the performance improvement in observable and measurable terms. Emery packers were required to keep a daily checklist of packings and compute the container utilization rate. Almost overnight, the rate jumped up to over 90%, and it held at that rate with the use of continued positive reinforcement.

Since the 1970s, OB Mod programs have been implemented in a wide range of manufacturing, service and not-for-profit organizations throughout the world. Research has shown the approach to positively affect manufacturing productivity, sales performance, customer service, absenteeism, tardiness, and safety. Alex Stajkovic and Fred Luthans conducted a meta-analysis of all the empirical
findings of studies conducted from 1975 to 1995 and found an average 17% improvement in performance across all organizations. This varied based on the type of organization and type of reinforcement intervention implemented. For example, the percentage of performance improvement among manufacturing organizations was 33% but only 13% for service organizations. Although monetary reinforcers provided the largest effect for manufacturing organizations, a combination of monetary and performance feedback was more effective in service organizations. Stajkovic and Luthans conducted a second meta-analysis to examine whether the combined reinforcement effects of money, feedback, and social recognition on task performance are additive, redundant, or synergistic (e.g., combined effects are greater than the sum of individual effects). They found that each reinforcer had a significant impact on task performance, but when all three were used in combination, they produced the strongest effects.

OB Mod is not without its critics, however. Edward Lawler and Steven Kerr have noted that process and design problems may limit the effectiveness of different reinforcers. For example, reinforcers may be aimed at the wrong behavior, and this can have inadvertent and even detrimental consequences. Steven Kerr’s widely read article, “On the Folly of Rewarding A, While Hoping for B,” illustrates this surprisingly common problem, providing examples from the world of politics, medicine, rehabilitation centers, universities, businesses, and even war. For example, he notes that universities hope professors will not neglect their teaching responsibilities but oftentimes reward tenure based on research and publications which take considerable time away from teaching. In addition, Kerr addresses the importance of distributing rewards based on meaningful differences in performance. A 1% variance in a wage increase between high performers and average performers will hardly incentivize employees to go the extra mile. Furthermore, organizations that focus solely on the highly visible or objective behaviors of employees may overlook more subtle indicators of excellent performance which may be difficult to measure, such as creativity or team building.

Other detractors contest the pure behaviorist stance of the theory, suggesting that there are cognitive processes related to thinking and feeling that affect our behavior as well. Reinforcement theory assumes that behavior is based solely on the antecedents and consequences of our actions, and our thoughts and feelings are irrelevant. While this may be plausible for laboratory rats, many critics argue that the behavior of human beings involves a more complex cognitive process.

Importance
Reinforcement theory has been studied for over half a century and supported by the aforementioned work of Skinner, Bandura, Luthans, Kreitner, and many other management scholars who have used it as the foundation of the OB Mod model. Despite Kerr’s words of caution, a large body of research has proven that reinforcement theory is an effective way to modify employee behavior. Fortunately, 40 years of research has also provided today’s organizations with some general guidelines for proper implementation.

First, managers should only reward, or reinforce, desired behavior and do so as soon as possible after the behavior appears. If rewards are not received right away, then they will not be linked to the behavior, and OB Mod will not be effective. Rewards come in many shapes and sizes and can be both extrinsic (e.g., salary, bonuses, paid vacation) and intrinsic (e.g., recognition, praise). Extrinsic rewards are tangible and can be powerful motivators used to satisfy physical or psychological needs, but they do not provide much information concerning performance. Thus, employees may not know what to do to improve subsequent task performance. Intrinsic rewards, in contrast, do provide more task-specific information that can be used to improve performance. Feedback is an important reinforcer as it provides employees with specific cues as to what was done well and what needs to be done in the future to improve performance. Likewise, social recognition has been increasingly used as a behavioral management intervention in organizations with great success. Research has shown that feedback and social rewards can be just as powerful reinforcers as money, particularly when used in some combination.

Employees need to understand exactly what is expected of them, which is why providing clear goals and objectives is a critical component of the process. Feedback through a review system is essential and should be provided on a timely basis. Objective performance standards that can be measured are advisable, but they should not be used to
Resource Dependence Theory

Resource dependence theory argues that organizations, as open systems, necessarily transact with other organizations in their environment to obtain the resources necessary for their survival. Such resources include social legitimacy, financing including debt and equity capital, the inputs necessary to produce the products and services offered, and the funds received from the provision of the organization’s output to others. These transactions inevitably create power-dependence relationships among the entities because only in very rare cases will the dependence of the focal organization on its transaction partners be identical to their dependence on it. These power-dependence relations subject the focal organization to potential influence and constraint by those that hold power over it because of that dependence. Thus, the argument from resource dependence theory maintains that understanding organizational actions requires examining the pattern of constraints and the preferences of other important actors in the organization’s environment—that management behavior can be understood in part as a response to the resource dependencies leaders confront.

The second argument from resource dependence theory holds that organizational leaders seek to create as much autonomy as possible, given the system of interdependent relationships they confront. This autonomy can free them from constraints on their decision making, increase profits, and help ensure the organization’s survival. To manage external interdependencies, organizations engage in strategies such as co-opting others onto their boards of directors, merging in an effort to absorb interdependence and gain competitive leverage, forming joint ventures

Katherine M. Richardson

See also Expectancy Theory; Experiential Learning Theory and Learning Styles; Goal-Setting Theory; Organizational Learning

Further Readings


as a strategy of partial cooptation and absorption, and engaging in various forms of political activity, such as lobbying and organizing campaign contributions. Because these actions are presumably designed to mitigate resource dependence and the resulting constraint, patterns of mergers, joint ventures, and co-optive board relationships can be predicted and explained by the pattern of resource dependence a given organization or set of organizations faces.

A third strand of resource dependence theory links the internal organizational power of people and subunits to the external power-dependence relations that the focal organization faces. The theory argues that those units (and people) that can best cope with the most critical external resource dependencies come to have relatively more power because of that capacity to deal with external threats and constraints. The increased internal power is manifested, for instance, in the proportion of senior leaders with backgrounds from the more powerful units, representation on the board of directors and critical committees, the salaries leaders and frontline employees of the most important units earn, as well as other manifestations of relative status. Therefore, internal organizational power dynamics reflect the external constraints and contingencies organizations confront. This entry shows the arguments and empirical support for the theory, its evolution and relationship to other perspectives on organization-environment interaction, and the critiques and challenges to its approach to organizational analysis.

**Fundamentals**

The most fundamental idea in resource dependence theory is the organization’s dependence on a particular resource. That has typically been measured by the proportion of inputs accounted for by some resource. Because such data are not always available for individual companies, input-output tables, which assess transaction patterns across industry sectors, have typically been employed and analyses of the effects of resource dependence are then conducted at the industry level. Of course a resource can be used a great deal but be less critical, so criticality is a second important dimension, albeit one that is much more difficult to assess and therefore seldom considered in empirical research. And a related but distinct construct is the concentration of control over resources, typically measured by the concentration ratio of the industry from which a given resource comes. The idea is that a given proportion of resources that come from highly concentrated sectors are more problematic in terms of their supply because there are fewer alternative sources.

One hypothesis is that organizations are more attentive to the demands of those in their environment to the extent they provide a higher proportion of resources. For instance, companies are more compliant with governmental preferences—for instance, to invest in economic development areas in Israel or to comply with nondiscriminatory hiring policies in the United States—to the extent that they do a higher percentage of their business with the government.

A second hypothesis is that activities designed to manage resource dependence follow transaction patterns. Thus, interindustry merger frequencies are significantly related to interindustry transaction relationships, with the higher the percentage of transactions occurring with a given other industry, the higher the percentage of mergers that take place with that industry, even after other factors such as profitability and industry concentration are statistically controlled. Similarly, board of director composition tends to follow resource dependencies. Representatives from agricultural organizations are more likely to sit on public utility or hospital boards, as one example, to the extent that agriculture is a more important industry in the relevant local environment. Companies with more leveraged financial structures are more likely to have people from financial organizations on their boards. And on their boards of directors, companies are more likely to have representatives from industries that they engage in a higher proportion of transactions with. Publicly regulated companies, with greater dependence on public support, are hypothesized to have larger boards than companies not publicly regulated, because of the greater need to co-opt important external sources of support.

Third, organizations face competitive interdependence as well as commensal, or buyer-seller, interdependence. At very low levels of industrial concentration, there are too many competitors to absorb or potentially coordinate with. At very high levels of industrial concentration, with only a handful of major industry players, tacit coordination is possible. Thus, it is at intermediate levels of concentration where there is both a greater need for managing competitive interdependence coupled with the
possibility of successfully accomplishing this task. Therefore, the hypothesis is that activities such as mergers that are designed to manage competitive interdependence will be higher at intermediate levels of industrial concentration.

The fourth hypothesis relates internal power to external resource dependence and holds that those units that bring in the most external resources possess the most internal power. One interesting manifestation of this effect occurs in universities. In public universities, the overhead associated with grants and contracts are a relatively more important source of money. Those departments, often in the hard sciences, that bring in the most outside research funding with the associated overhead hold more power inside public universities. In private universities, donations are a comparatively larger source of outside funding. Not surprisingly, in private universities, professional schools, such as business, law, and medicine, with their comparatively well-off alumni, have relatively more power compared to other departments than they do in public universities. Or, to take another example, as the strategic dynamics in book publishing have changed and the industry has become more competitive and economically challenged, power has shifted away from those with editorial backgrounds, useful in acquiring books, to people with backgrounds in business, more useful in dealing with the emergent resource dependencies.

**Evolution**

Resource dependence theory emerged as a natural outgrowth of the increasing interest in the 1960s about the important connections between organizations and their environments. For instance, the structural contingency theory of organizations maintained that whether firms would have more or less bureaucratic arrangements and also have the effectiveness of various structural choices depended on the amount of uncertainty and change in the environment. More uncertain and unstable environments tended to be associated with organizations having less bureaucratic structures, while stable and certain environments were conducive to more formalized, hierarchical and bureaucratic structures. Furthermore, more formalized and hierarchical arrangements were comparatively more effective when the environment was more stable and more certain while less bureaucratic structures performed better in less stable and certain contexts.

Around the same time that structural contingency theory developed, discussions of organizational effectiveness increasingly acknowledged the reality that many and varied external actors impinged on organizations and that these external entities often had inconsistent criteria by which they evaluated the effectiveness of organizational actions. Thus, organizations were linked to their environments, and those environments comprised multiple actors with differing preferences.

A third influence on the development of resource dependence theory was James Thompson’s important treatment of organizations. Thompson argued that effective organizational performance virtually required that managers buffer the organization’s technical core as much as possible from outside influences. Without such buffering, the pursuit of technical rationality would be diminished as internal organizational decisions would face disruptions and demands that interfered with technically rational choices.

These three ideas—of environmental contingency, the need for buffering, and the incompatible demands of important external actors—constitute the theoretical underpinnings of what became resource dependence theory. The theory also developed partly as a reaction to the emphasis in the leadership literature on the importance of leaders for organizational performance and the explanatory value of leaders’ values and personal psychology in understanding organizational decisions. Resource dependence challenged the idea that leaders mattered a great deal in determining what organizations did or in affecting company performance. Instead, the theory argued that organizations were constrained by the preferences and demands of external actors whose importance for organizational survival required that they be taken seriously, rendering internal leader preferences less important as an explanation for organizational decisions and causing performance to reflect primarily the conditions of the environment in which the organization operated. So, for instance, Ronald Burt found that patterns of constraint emanating from conditions of resource dependence predicted profit margins.

The original formulation of resource dependence theory used a relatively crude measure of dependence, namely, the proportion of transactions that
occurred with a given other industry. Burt noted that dependence would reflect not just the relative importance of another industry with which the focal organization transacted but also the structural conditions of that industry and, in particular, its degree of economic concentration. If a firm engaged in a lot of transactions with some given other industry, but that industry was relatively unconcentrated, the firm would have many transaction options and would be less dependent on any given firm in that other industry compared to a situation of great industrial concentration such that there would be few other options for the focal firm to use. Burt’s use of network methods to better operationalize many of the insights of resource dependence theory marked an important step in the evolution of the theoretical arguments of resource dependence and their operationalization and measurement.

Importance
Resource dependence is considered a “foundational” macro-organizational theory and is among the most cited of all organizational theories. With its focus on mergers, joint ventures, and strategic choice, resource dependence has influenced some elements of strategic management. The emphasis on power dynamics, both internal and external to the focal organization, distinguishes resource dependence from other theories of organization-environment interaction and comports well with observations of the role of power in organizational life. The focus on the importance of the environment as an explanation for behavior is compatible with situational explanations in other social sciences, such as social psychology. And the theory’s broad scope in terms of the dependent variables it can and has considered also has added to its appeal.

Several challenges and critiques, however, are important to consider. The population ecology perspective on organizations agrees with resource dependence theory that environmental conditions are important for understanding organizations, but it suggests that organizational forms and arrangements emerge much more through birth and death processes than through strategic managerial choice. Population ecology argues that the degree of managerial discretion implied by resource dependence theory’s predictions about managing the environment may hold for some larger organizations but that most organizations are fairly small, with very limited ability to strategically influence their environments. This challenge implicitly raises the issue of the relative importance of large organizations in the economy—as employers and creators of new jobs and as economic actors—which is itself a subject of considerable debate. On the one hand, there have been significant mergers in industries such as airlines, oil and gas, steel, telecommunications, financial services, and retailing that have clearly resulted in a more concentrated market characterized by large companies possessing seeming strategic discretion. It was, after all, the risky decisions about leverage and loans, made possible by the absence of effective regulation that came from companies’ ability to influence the political system, that led to the failures of large financial services organizations and that triggered the deep economic collapse of 2008 and 2009. On the other hand, the proliferation of new organizations in both the profit and nonprofit spheres, the fact that most organizations are small, the importance of entrepreneurial activity for the development of new technologies and even new industries, the fact that large organizations often cut jobs as part of cost-cutting initiatives so that new job creation mostly comes from small businesses, and the fact that incumbent organizations infrequently create or even participate in the next generation of innovative products even in their own industries, means that smaller organizations, with inherently less power, are prominent in the aggregate as economic actors.

A second challenge comes from the argument that even large, economically significant private sector organizations increasingly lack the managerial discretion to do anything other than what the financial markets demand thereby making a core proposition of resource dependence—the idea of managerial strategic choice—increasingly problematic. Gerald Davis has forcefully argued that resource dependence theory developed at a time when predominantly larger private sector organizations enjoyed a degree of managerial autonomy that no longer exists. As such, he maintains the theory was once suited for and a good explanation of the world but that world has fundamentally changed. Financial markets have become increasingly important; companies that do not adhere to the dictates of what analysts and investors want them to do suffer declines in stock price that then make them
attractive takeover targets. Takeovers and arbitrage activities know almost no bounds in terms of size, because of the development of the leveraged buyout and private equity industries and the ready availability of debt and equity capital to finance enormous transactions. Consequently, there is no protection for inefficient companies and limits exist on managerial discretion regardless of organizational size. In this view, managerial succession is as much about the ability to please Wall Street as it is about internal power dynamics. Thus, firms are constrained in ways that make responding to resource dependence constraints or achieving autonomy through mergers, joint ventures, or co-optation, using boards of directors, almost impossible.

However, a study by Sydney Finkelstein of one aspect of resource dependence, its predictions about patterns of merger activity, found no evidence that the predictive power of the theory had declined over time. Although one could argue that the growing influence of financial institutions on organizational decision making is just a different manifestation of resource dependence, the problem with this reasoning is that capital seems to be abundantly available. Therefore, resource dependence would maintain that the ability of suppliers of capital to constrain organizational decision making should be diminished, not increased.

A third challenge to resource dependence theory comes from its emphasis on power relations, both externally and internally, as consequential for understanding managerial behavior. Economics emphasizes the importance of efficiency, broadly conceived, as the prevailing logic that explains organizational actions, where efficiency constraints emerge as a consequence of competitive pressures. Actions or structures that do not serve efficiency should, over time, disappear through a process of competitive natural selection. Or, as economist Oliver Williamson has argued, over sufficiently long time horizons, efficiency drives out power as an explanation for behavior. The problem with this critique is that it posits an equilibrium condition and is largely uninterested in departures from the long-run optimal state of affairs, even though apparently irrational behavior (from an efficiency perspective) can and does persist for substantial periods of time. As one example, although studies from both consulting firms and academics consistently report that most mergers fail to achieve economic benefits for the acquiring firm and instead destroy value, merger activity continues apace. This and similar examples, such as persistent underinvestment in high performance work practices, do call into question whether the economic value-destroying quality of decisions will necessarily curtail their frequency in the presence of strong economic incentives—fees and the fact that executive compensation depends importantly on organizational size—as well as ego and self-enhancement motives to persist in the inefficient behavior.

A fourth challenge to resource dependence comes from its focus on organizations as being central to understanding social life. Donald Palmer and other theorists with a more political, social class perspective argued that rather than being important in their own right, corporations and, for that matter, non-profits were mostly arenas where people of a certain social class came together to develop shared understandings of the world and determine what decisions to make. Instead of emphasizing an imperative for organizational survival and managing dependence, as resource dependence theory does, this alternative perspective emphasizes social class-based dynamics as explanations for organizational behavior. For instance, studies of organizational interlocks noted the effect of shared geography on board composition, arguing that the personal ties among elites was at least as important as organizational dependencies in affecting board structure.

And a fifth challenge to resource dependence theory derives from its very success as a metaphor accounting for much of organizational life. After some initial flurry of activity, empirical research on resource dependence almost disappeared until quite recently. This absence of empirical work has limited further refinement and development of theory after its initial statement. And the failure to pursue a large empirical agenda also has meant that the theory’s scope conditions—when it would and, would not, hold—remain largely unexamined. For instance, although as already noted, there is an argument that suggests that resource dependence is particularly relevant in a particular time period, with one exception of a study examining the ability of resource dependence to predict patterns of merger behavior, that argument about the time-dependent character of resource dependence has not been empirically examined.

The absence of empirical work exploring the challenges to resource dependence theory, for
instance, studies that investigate its predictive power over time and research that pits resource dependence predictions against alternatives, means that there are many research opportunities that remain.

Jeffrey Pfeffer

See also Business Policy and Corporate Strategy; Contingency Theory; Environmental Uncertainty; Institutional Theory; Stakeholder Theory; Systems Theory of Organizations

Further Readings


RESOURCE ORCHESTRATION MANAGEMENT

Evidence demonstrates that a firm’s portfolio of resources, which includes tangible and intangible assets, such as financial, physical, human, and social capital, strongly affects competitive advantage, organizational growth, and performance. However, such portfolios do not simply materialize nor are they self-directing. Resource orchestration describes and examines the roles of managerial actions in the structuring, bundling, and leveraging of the firm’s resource portfolio. By synthesizing and extending previous models—David G. Sirmon and colleagues’ resource management and Constance E. Helfat and colleagues’ asset orchestration—resource orchestration provides a comprehensive treatment of managerial roles, and the synchronization of these actions, in the realization of resource-based competitive advantage and resulting performance outcomes. Moreover, the related empirical results strongly support this logic. This entry explains the fundamentals of resource orchestration by briefly describing its development from previous literatures, current empirical evidence, and directions of future research.

Fundamentals

Resource management focuses on the three major components of managerial action and their attendant subprocesses. The first action, structuring the resource portfolio, provides the “working material” in the resource orchestration model. Specifically, managers either (a) acquire existing resources for various markets or (b) accumulate resources via internal development activities, such as research and development (R & D) investment or training activities. Third, divesting resources is also useful as it may provide cost benefits and, more importantly, may assist the firm in deviating from path-dependent strategies. Bundling resources into capabilities is the second major action in resource orchestration. Managers can bundle resources in three ways. First, they may stabilize existing capabilities with slight improvements in the component resources. Second, they can enrich existing capabilities with more substantial alterations. Or third, they can pioneer new capabilities for the firm. The last major action is leveraging. Here managers mobilize, coordinate, and deploy sets of capabilities for specific market opportunities. Leveraging is where value is finally realized. It is important to note that resource management argues, and evidence supports the logic, that synchronizing a set of actions is more important than the specific choice of subprocesses to engage.

Developed concurrently, the asset orchestration model complemented the resource management model. While asset orchestration did not specify bundling actions, this work suggests that structuring
actions should also contain choices related to organizational governance and design, and leveraging should address a concern for innovation. Similarly to resource management, asset orchestration emphasizes that the internal fit or synchronization among processes is vital for positive outcomes. As an integration of these two complementary models, resource orchestration provides a comprehensive framework to guide a growing number of empirical investigations of managerial roles in developing and exploiting a resource-based advantage.

The empirical record of resource orchestration is quite strong. For example, evidence shows that (a) managerial actions mediate the resource and performance relationship; (b) when managers attend to both capability strengths and weaknesses, performance is optimized; (c) resource bundling choices drive important strategic and performance outcomes, especially when considering human capital; (d) managers are able to realize greater value from their resources when they make context-specific resource bundling choices; (e) managerial actions increase in importance as rivals’ resource portfolios drive toward parity; (f) managers differ in the quality of their resource orchestration abilities; and (g) synchronization of various subprocesses of resource orchestration leads to successful outcomes, while the lack of synchronization leads to negative results regardless of which action and subprocesses are selected.

Current work aims to extend the scope of resource orchestration. Specifically, ongoing work is focused on understanding resource orchestration across the breadth of business activities, depth of managerial roles within an organization, and across all organizational life cycle stages. In terms of resource orchestration, the breadth of a firm’s activities highlights how various corporate- and business-level strategies require and utilize different resources and capabilities. Thus, to implement organizational strategies, such as product diversification, international diversification, differentiation, and cost leadership strategies, resource orchestration actions must provide the appropriate resources. Attempts to engage such strategies with an inappropriate resource portfolio and synchronization of bundling and leveraging will result in ineffective implementation. Beyond the structuring of a portfolio, managers must also integrate across diverse business divisions and locations to promote efficient resource utilization and even find valuable synergy. The duplication of resource sets across strategies provides the basis of cost disadvantages. Moreover, incentives to develop cooperation can help facilitate enriching and pioneering bundling activities, which allow the firm to explore new product and geographic markets.

Resource orchestration actions necessary to develop and implement corporate and business level strategies occur throughout a hierarchy of management. This makes the synchronizing of resource orchestration actions more complicated. Understanding the proper incentives to align managers across levels to promote synchronization is nascent. However, it is argued that achieving synchronization across managerial levels is somewhat dependent on the locus of the initiative (top-down or bottom-up). Regardless of the locus, middle management bears the brunt for achieving resource orchestration synchronization. For example, top-down mandates require middle managers to interpret and direct implementation by overseeing the accumulation and bundling of resources that operational managers utilize. Conversely, in bottom-up flows of variation, middle managers champion effective resource orchestration actions to top managers in order to support their replication across the firm. Fundamentally, synchronizing resource orchestration actions requires middle managers to deeply understand, and be empowered to correct, bidirectional information flows.

Finally, the life cycle stage of a firm affects the relative importance of different resource orchestration actions. Focused on viability in the start-up stage, managers concentrate on structuring a portfolio of resources, which provides relevance and a source of uniqueness relative to rivals. During the growth stage, managers increase their attention on bundling enriched capabilities. Also, managers’ skills in developing and maintaining relationships with suppliers, investors, creditors, and others are instrumental to fostering future growth, which in turn require skills in mobilizing and deploying firm resources. The mature stage of a firm’s life cycle is characterized by a balance between innovation and efficiency. The bureaucratic structures developed to enable efficient firm growth can limit innovation; therefore, managers actively pursue innovation through pioneering resource bundling. Finally, in a decline stage,
managerial attention is paid to both restructuring the firm's portfolios through the investing in new resources and divesting of resource weaknesses and in new leveraging actions to extend the markets of the firm.

David G. Sirmon and Christina L. Matz

See also Competitive Advantage; Dynamic Capabilities; Environmental Uncertainty; Firm Growth; Management Roles; Resource-Based View of the Firm; Strategic Entrepreneurship

Further Readings

RESOURCE-BASED VIEW OF THE FIRM

According to the resource-based view of the firm (RBV), resources and capabilities are the fundamental sources of firm-level value creation from which firms can create competitive advantages, which may in turn improve their overall performance. Given that predicting and explaining performance differentials among firms is a core objective of strategists, it is perhaps no surprise that the RBV, which provides an intuitively pleasing framework for understanding this outcome, has become one of the most widely accepted theoretical perspectives in the strategic management field, spawning many variants (e.g., knowledge-based view, natural resource-based view) in the process. As such, the RBV is the focus of a long and growing stream of academic studies and is featured prominently in most major strategy textbooks. Notwithstanding the RBV’s prominence, it is not without its critics. Due to certain limitations in its articulation and a debatable level of empirical support, many question the RBV’s usefulness and validity. In light of this condition, this entry explores the logic, evolution, criticisms, and implications of the RBV.

Fundamentals

The RBV is a theoretical framework for understanding firm-level competitive advantage. The RBV views resources and capabilities as the fundamental sources of value creation and rests on two fundamental assumptions: that resources and capabilities are heterogeneously distributed among firms and that they are imperfectly mobile. These assumptions allow for differences in firm resource endowments to both exist and persist over time.

Given these assumptions, RBV scholars maintain that firms that control (i.e., possess and/or have access to) resources and capabilities that are both...
valuable and rare can attain a competitive advantage in the short term. RBV scholars also contend that in order to sustain these advantages over time, these resources and capabilities must also be inimitable and non-substitutable. As the mere control over resources and capabilities does not necessarily imply their exploitation, the RBV further specifies that the firm must not only be organized in such a way as to encourage, promote, and facilitate their effective utilization, but also it must possess the capabilities to utilize them in intended ways. Due to the shifting nature of the industries in which all firms compete, the RBV also maintains that firms seeking a sustained competitive advantage (or a series of short-term competitive advantages, which is generally argued to be a more viable strategy) must develop the ability to reconfigure their resource bases in ways that match the extant opportunities and threats in their environments.

Finally, it is important to note that the attainment of a competitive advantage (temporary or sustained) may not always manifest in improved performance as appropriating the resulting economic value at a cost lower than that required to create it may not always be tenable. Thus, while the performance of firms that are able to create resource-based advantages is likely to be greater than that of firms that are unable to do so, competitive advantage and performance should not be assumed to be equivalent constructs.

Due to the fact that the RBV was developed as a defiant response to deterministic, environmental models of firm performance, the RBV is largely unconstrained by contextual limitations. In response, most empirical research in the RBV has sought to either control for industry effects or examine firms from a single industry setting. As a result, the RBV has become a widely accepted framework for the identification of *ex post* sources of competitive advantage amid a given context.

**Evolution**

In order to best understand the central arguments of the RBV, it is helpful to examine the history of the strategic management field. The 1960s saw the origin of the field, then known as business policy. During this decade and into the 1970s, scholars began searching for the sources of competitive advantage. The resulting paradigm, known as strengths-weaknesses-opportunities-threats (SWOT), suggested that firms that successfully matched their internal strengths with external opportunities while neutralizing external threats and minimizing internal weaknesses would outperform their competitors.

During the 1980s, a fundamental shift occurred in the field. Due to the infiltration of economics, the SWOT framework was replaced by models developed by industrial organization (IO) economists. Scholars such as Michael Porter believed that firms were defenseless against the opportunities and threats that existed in their industry and that their behavior (and performance) were dictated by the structure of the industry. In what became known as the structure-conduct-performance (SCP) framework, IO economists argued that competitive advantage was unsustainable in a perfectly competitive, equilibrium economy where performance differences among competing firms could easily be competed away. Thus, the best a firm could hope for was to achieve competitive parity in the highest performing industry or strategic group.

This line of reasoning did not sit well with those who believed that certain factors internal to the firm were capable of generating different performance levels which could be sustained. Thus, during the latter part of the 1980s, a new group of scholars responded to these deterministic, industry-based models by developing an alternative model of competitive advantage. This theoretical paradigm, which has become known as the RBV, largely ignores the external forces that exist in the economy and instead stresses the importance of internal strengths in determining firm-level competitive advantage.

Although the RBV’s assumptions and theoretical relationships were not formally articulated until 1991, the RBV’s genesis can be found in the writing of Edith Penrose, who was one of the first scholars to recognize the importance of resources to a firm’s competitive position. In 1959, Penrose maintained that a firm consists of a bundle of resources that may contribute to its competitive position (signaled primarily by its growth) if they are exploited in such a manner that their potentially valuable services are made available. Aside from Penrose, Paul Rubin is one of the few scholars to conceptualize firms as resource bundles prior to the formal origins of the RBV. Like Penrose, Rubin recognized that resources were not of much use by themselves; rather, firms must process them in order to access their utility.
Building on the inroads made by Penrose and Rubin, Birger Wernerfelt, in the first attempt at formalizing the RBV, argued that while a firm's performance is driven directly by its ability to sell products and services, it is driven indirectly (and ultimately) by the resources from which they are produced. Given this logic, Wernerfelt proposed that firms may earn profits above that earned by the average competitor by acquiring resources that are critical to the development of demanded products. Because of the novel and abstract nature of Wernerfelt's work, it did not immediately gain support from academics. As such, widespread appreciation for the RBV did not begin to accumulate until several years later with the publication of two seminal papers.

The first was published by C. K. Prahalad and Gary Hamel in 1990. In this paper, Prahalad and Hamel argued that the critical task of management was to create radical new products, which was enabled by the exploitative nature of the firm's core competences. Much like Penrose and Rubin before them, Prahalad and Hamel focused not only on static resources but also on the firm's inimitable skills, technologies, knowledge, and so on, with which they are deployed. Despite the merits of their argument, coupled with the fact that they presented no testable propositions, it was largely ignored at the time by academics.

The second influential paper was published by Jay Barney in 1991. This paper is widely regarded as the first formalization of the then-fragmented resource-based literature into a comprehensive (and thus empirically testable) theoretical framework. Drawing on arguments by Penrose, Wernerfelt, and others, Barney argued that resources (i.e., assets, capabilities, processes, attributes, information, knowledge, etc.) were the fundamental units of value creation within firms. In addition, Barney specified two critical assumptions. First, Barney assumed that resources are heterogeneously distributed among firms, which allowed for the existence of differences in the resource controlled by individual firms. Second, Barney assumed that resources are imperfectly mobile, which allowed for these differences in resource endowments to persist over time.

With these assumptions in place, Barney argued that firms that possess and exploit resources that are simultaneously valuable (i.e., they enable the firm to exploit an opportunity or neutralize a threat in its environment) and rare (i.e., the resource is controlled by a small number of firms) will attain a competitive advantage (i.e., the implementation of a strategy not currently being implemented by other firms that facilitates the exploitation of opportunities and/or the neutralization of competitive threats). While the importance that resources must be valuable may seem rather obvious, that they must also be rare may not be. For Barney, rareness was important given that widely available resources, no matter how valuable, should afford all firms the opportunity to implement identical value-creating strategies and, thus, could only lead to competitive parity.

In addition to the conditions necessary for a firm to achieve a competitive advantage, Barney also articulated the conditions necessary for the firm to maintain an advantage over time. In order to achieve a sustained competitive advantage (i.e., the implementation of a value-creating strategy that current or potential competitors are unable to duplicate), the resources on which the competitive advantage is based must be both inimitable (i.e., firms that do not control the resource face a considerable cost disadvantage in obtaining or developing it) and non-substitutable (i.e., firms that do not control the resource cannot obtain similar benefits from other resources), since otherwise the advantage could easily be competed away. In other words, if valuable, rare resources are not protected from imitation or if other resources can yield equivalent value, the benefits those resources provide to the firm will not remain rare for long.

One of the primary criticisms of Barney’s paper was his all-inclusive definition of resources. In response, scholars began to emphasize the difference between tangible and intangible assets (i.e., resources) on the one hand and the processes by which they are exploited (i.e., capabilities) on the other. Another critique of Barney’s articulation of the RBV was that it was rather static. Many argued that the process by which resources generate competitive advantage remains in a “black box.” In response to this missing link between resource possession and resource exploitation, many scholars have since emphasized that the best performing firms are not merely those who possess better resources but, more importantly, that they use those resources better than competing firms. Subsequently, a great deal of theoretical work began to emerge regarding the types of processes to which resources must be subjected in order to exploit their latent value.
This rediscovered attention to process led to the emergence of three important theoretical approaches within the RBV. The first was Barney’s value-rarity-imitability-organization (VRIO) framework. As a follow-up to his 1991 paper, Barney argued that in addition to simply possessing valuable, rare, inimitable (which by then included non-substitutable) resources, a firm also needed to be organized in such a manner (via such mechanisms as structure, control systems, and compensation policies) that it could exploit the full potential of those resources if it were to attain a competitive advantage. In this view, the organization of a firm was considered to be a firm-level orientation, strategy, or context that encouraged a general and unified approach to the utilization of its resources.

Concurrent with the publication of Barney’s VRIO framework was a second and radically new theoretical approach that more specifically defined the types of processes by which firms could exploit resources. In their influential 1997 paper, David Teece, Gary Pisano, and Amy Shuen proposed that it was not the resources themselves but rather the firm’s ability to integrate, build, and reconfigure resources in response to changes in the firm’s environment that enabled firms to outperform competitors. Building on this “dynamic capabilities” framework, Kathleen Eisenhardt and Jeffrey Martin added specificity to the discussion in 2001 by emphasizing that effective execution of a dynamic capability requires knowing both the “ingredients” (the specific components that must be executed) and the “recipe” (the manner in which they must be executed).

Most recently, attention has been given to detailing the specific processes by which resources and capabilities are best utilized by managers. In a paper published in 2007, David Sirmon, Michael Hitt, and Duane Ireland argued that managers seeking resource-based advantages must effectively bundle resources and capabilities together via three practices. Stabilizing practices enable a firm to maintain the strength of the resources and capabilities in existing bundles. Enriching practices enable a firm to add complementary resources and capabilities to existing bundles and/or extend the use of existing bundles into new areas. Pioneering practices enable a firm to acquire new resources and capabilities in order to create entirely new bundles.

As is obvious from the above discussion, the RBV has evolved considerably over time. Interestingly, what began as a dynamic understanding of the firm as articulated by Penrose, Rubin, and Prahalad and Hamel, became rather static with the initial formalization of the framework by Barney (no doubt due to the challenge of articulating such a complex set of relationships). Nevertheless, the dynamism that once characterized the RBV has reemerged with the VRIO, dynamic capabilities, and resource management perspectives. While it is now understood that it is necessary for a firm to possess valuable, rare, inimitable, non-substitutable resources and capabilities, it is also understood that such a condition is insufficient. In addition to possessing these ingredients, a firm seeking a competitive advantage must effectively exploit the resources and capabilities it possesses with an eye on continually upgrading them in ways that match the shifting opportunities and threats in the environments in which it competes.

Importance

The RBV has become a dominant theoretical framework upon which thousands of academic journal articles have been grounded and which is prominently featured in virtually all textbooks on strategy. Thus, much of what academics study, write about, and teach managers of today’s organizations has been greatly influenced by the RBV. Given this level of acceptance, one might assume that the RBV has received overwhelming support for its central tenets in empirical research. Surprisingly, such is not the case. In fact, of the three scholarly reviews of the results of this research to date, all utilize different methods and draw different conclusions.

In the first assessment of RBV research in 2001, Barney and Asli Arikan conclude that virtually all of the RBV studies with which they were familiar provide results that are consistent with RBV logic. However, Barney and Arikan counted articles as supportive of the RBV if they reported any findings consistent with its hypotheses; in so doing, they ignored nonfindings (such as insignificant regression coefficients). Given that most empirical articles fail to find support for all hypotheses tested (i.e., some portion of tests will yield insignificant results), Barney and Arikan’s study cannot be used (nor was it intended to be used) to assess the actual level of support for the RBV.

In order to more precisely assess support for the RBV, in 2007, Scott L. Newbert analyzed a random
sample of RBV studies from which he found that roughly half (53%) of all empirical tests conducted stand in support of the RBV. More importantly, he found that this support varied considerably based on the theoretical approach tested, with tests relying on early incarnations of the RBV receiving far less support than its more recent extensions. Based on these findings, he concluded that a firm's organizing context and its capabilities (dynamic and otherwise) have a far greater effect on its competitive position than its static resources and that, as a consequence, these areas ought to be the focus of future empirical inquiry.

In response to these findings, Russell Crook, David Ketchen, James Combs, and Samuel Todd conducted a meta-analysis of the literature in 2008 and concluded robust support for the RBV. However, because these authors assessed only the relationship between resources and performance, and not the many other relationships that fall under the RBV umbrella as discussed above, their conclusion of support for the RBV as a whole is tenuous. Ultimately, the RBV is an important and widely regarded theoretical framework that can be used to understand the sources of a firm’s competitive position. For managers, this means that the success (or failure) of their firms is largely in their control. Rather than rely on external structural forces to provide opportunities for profit as IO economists would suggest, the RBV allows for the attainment of a competitive advantage on the basis of internal factors. As such, managers who can gain access to valuable, rare, inimitable, and non-substitutable resources and capabilities and organize their organizations in such ways so as to facilitate their exploitation are likely to outperform rivals who are unable to do so. While implementing the prescriptions of the RBV is no small task, it nevertheless provides managers with a framework by which they may exact more control over the performance of their firms as compared to other theories of competitive advantage.

Notwithstanding the promise of the RBV for theory and practice, research on the more recent extensions of the RBV, which seem to hold the most promise for understanding this real-world phenomenon, is still in its infancy. With increased empirical inquiry into these theoretical advances, we will no doubt improve the precision with which this important theoretical perspective is tested and in turn enhance our understanding of how and to what degree resources and capabilities facilitate the attainment and sustainability of firm-level competitive advantage.

Scott L. Newbert

See also Competitive Advantage; Dynamic Capabilities; Knowledge-Based View of the Firm; Strategic Groups; SWOT Analysis Framework

Further Readings


Role Theory

Role theory is based on the concept that individual behavior in social settings is governed by perceptions of role, a socially constructed position, or category, such as “spouse” or “manager.” Connecting theories of social structure and individual behavior, role theory explains how actors translate perceived
societal norms and expectations into scripts for action in a given context. Role theory extends to all realms of social life, including family, religion, and political settings, and it is of no less importance for the management of organizations. The concept of role is necessary in any system, from small groups to global economies, predicated upon a division of labor across constituents. It is also essential to the persistence of organizations over time; individuals may join or depart, but roles endure and establish continuity. This entry will explore the key features of role theory and their relation to organizational functioning, outline the development of different perspectives on roles, and specify how an appreciation for the elements of role theory can benefit managers seeking to build high-performing work teams and organizations.

**Fundamentals**

A *role* is a position constructed within a larger social system. It is constructed in the sense that normative expectations specify a range of obligatory, acceptable, and prohibited conduct on the part of individuals inhabiting the role, otherwise known as *actors*. Actors’ perceptions and interpretations of others’ expectations lead them to generate scripts for action in a situation, which they follow as they play or perform their role. These expectations govern interaction with other members of the social system, as actors attempt to conform to expectations, in order to garner rewards for doing so or to avoid sanctions for unacceptable behavior. An actor may occupy several roles simultaneously, although one role will be dominant in providing the scripts for a performance; for example, parents do not cease to be mothers or fathers while at the workplace, yet their professional roles will be of greater importance in directing behavior at the weekly staff meeting. Thus, role theory explains why different individuals behave similarly in a social context (when they occupy the same role), as well as why the same individual may behave very differently across contexts (in playing different roles).

Role theory is relevant in various ways to the functioning of organizations. First, a role does not exist in isolation; it is only meaningful when situated within a network of connected roles. The collection of positions in the network that both influence and depend upon a role is referred to as the *role set*. The ability of actors to understand their place in a role set is essential to achieving organizational objectives; consider the futility of an auto assembly line where all workers individually attempt to construct a vehicle from scratch. Successful performances require an actor to engage in *role-taking*, seeing his or her role as it is seen by others and responding accordingly. Feedback from role set members can lead actors to revise their scripts to ensure more acceptable performances in the future. These scripts guide role performances even as actors perform by themselves: Actors learn to conduct themselves as though engaging with a generalized other, a composite of the expectations of their organizational community. From drafting a memo for a companywide audience to editing a report, much of the performance of a role takes place with the generalized other in mind.

A key distinction in role theory exists between *positional roles* created and formally recognized by the organization and *functional roles* that arise from group interaction. Positional roles are captured in job titles and reporting relationships diagrammed on organizational charts. Tasks and obligations associated with these roles are cataloged in performance objectives and used to evaluate role occupants. Such measures heighten consensus in regard to the expectations of multiple actors concerning the same role. Actors thus play roles with greater certainty in expected behaviors, as members of the role set coordinate performances on the basis of shared expectations. Positional roles enable continuity in the organization; as personnel change, new actors conform to existing roles and produce performances acceptable to role set members. Role continuity provides stability, although this may become problematic under conditions of rapid change and uncertainty. If patterns of rewards and sanctions for roles do not reflect changes in the environment, actors may adhere to codified expectations regardless of the impact on organizational performance.

Functional roles, in contrast, result from social interactions that are not formally specified by the organization but are no less necessary for its operation. Work teams may include positions, such as supervisor, business analyst, and data entry specialist, but these roles do not provide scripts for responding to every operational contingency. In pursuit of a specific objective, individuals may take on functional roles of project leader, subject matter expert, or external liaison. These roles may be
isolated to a single initiative, but to the degree that they are affirmed in repeated interactions, they can come to exert a more powerful influence on subsequent performances than the formal positions that actors occupy, especially when the titles or responsibilities of those positions are largely symbolic. Thus, the everyday performance of roles in organizations is as much about role-making as traditional notions of role-playing, if not more so. To this end, actors take part in an ongoing negotiation with members of a shifting role set, learning standards of acceptable performance within a community while also defining opportunities for personal variation. This approach can be seen in the practice of job crafting, where role occupants fulfill the basic expectations of a role while adding new features that provide enhanced personal meaning.

The potential for role-making highlights another important consideration in role theory, namely, the presence of functional and symbolic aspects of a role, both for the actor and the organization. Thus far, the discussion has emphasized the functional performances necessary for the organization to achieve its stated operational goals; from the actor’s perspective, functional rewards for conformity are usually conceived of in instrumental terms, in the form of financial rewards, job promotions, and hierarchical status. However, organizations also need actors to fill representational roles that satisfy expectations for symbolic value. Consider the founder of a cutting-edge technology start-up: Depending on whether the organization succeeds or fails, he may be cast into the role of visionary leader or irresponsible crackpot, respectively. Either way, the role provides meaningful symbolism demanded by the organization’s stakeholders. The symbolism offers targets upon which those inside and outside the organization can express positive or negative reactions to the organization and its activities.

The symbolic function of roles is important for actors as well as for the organization and its stakeholders. Because of the importance accorded to work in modern society, occupational roles play a critical part in the formation of identity. Positional roles that are held in high regard (e.g., physician, CEO) confer status on the occupant, and the successful performance of any role is associated with increased esteem from an actor’s peers or other role set members. Even in roles that lack prestige, individuals may join with actors occupying similar roles to develop identities that accord positive meaning to their work. This practice has been observed in occupations such as sanitation worker or gravedigger, roles that are often symbolically stigmatized as “dirty” by the rest of society. Unable to create a positive identity in such roles, actors may conform to expectations, not to earn approval but to accumulate goodwill in the form of idiosyncrasy credits, enabling them to engage in a certain amount of deviant behavior and express other desired identities within a role without sanction from their role set.

Playing a role may present challenges for actors even when the role is associated with desirable identities and a high level of consensus exists. Role strain occurs when various sets of expectations associated with the role interfere with one another. Frontline supervisors, for example, may be expected to perform large amounts of analytical work in addition to their managerial duties. Those managerial tasks may also contain contradictions, requiring supervisors to serve as mentor, coach, and disciplinarian. Strain can arise in balancing representational and functional aspects of the role as well. Managers may welcome the opportunity to perform as leaders, inspiring and motivating employees to exceptional levels of performance, yet they still must fulfill the routine administrative functions expected of their role. Role strain can be relieved to a degree through increased differentiation, creating more roles with constrained expectations. However, this creates extra work for role set members who must coordinate performances with additional actors, as well as for role occupants further up the organizational hierarchy as they become responsible for integrating the functions of a greater number of subordinates.

While role strain represents competing expectations within a role, role conflict is a case where expectations associated with multiple roles are incompatible. Conflicts may arise between roles within an organization, for instance, a positional role as full-time human resources (HR) representative that must be performed alongside a functional role as leader of an ad hoc committee to overhaul the organization’s payroll system. Often, conflicts exist when expectations linked to occupational roles and family roles (e.g., spousal or parental roles) are at odds. Actors may be forced into undesirable choices between the demands of the two salient, but distinct, role sets. At the same time, if roles are seen as complementary, such that the financial benefits
of employment allow an actor to fulfill a provider role in the family, the possibility for role enrichment exists. The effects of occupational roles on nonwork roles, and the corresponding potential for both role conflict and role enrichment, have been the subject of considerable interest in the area of work-life balance.

### Evolution

Ideas that figure prominently in the theory of roles, such as the division of labor or bureaucratic systems that separate office from officeholder, can be traced back to the political philosophy of Adam Smith in the 18th century and to 19th-century sociologists Émile Durkheim and Max Weber. It was not until the early 20th century, however, that social scientists would come to establish theories primarily concerned with the concept of role.

Interactionist role theory originated in the writings of George Herbert Mead, who saw roles in terms of the negotiated relationships of actors creating and refining their social world. The metaphors of “role” and “actor” were taken to their greatest extension by sociologist Erving Goffman, who characterized all social life as theatre, with actors dependent upon one another to execute performances faithfully so that the production could continue with minimal disruption. While few modern theorists adhere to such an extreme position, an interactionist view persists in theories that describe roles emerging from repeated patterns of interaction and persists in recent work on role-making, job crafting, and the enactment of identities through role performances.

At midcentury, Talcott Parsons and other sociologists expanded on earlier work by anthropologist Ralph Linton, articulating functionalist theories based on roles as positions within a stable social system and performance as conformity to the expectations of society in general and to role sets in particular. This perspective influenced organizational researchers focused on how actors managed role strain and role conflict to achieve desirable outcomes for their organization and for themselves. Functionalist theories of role can be seen in research on management and job design that emphasize the formal specification of responsibilities and expectations for acceptable role performance.

Role theory was explicitly grounded in organizational behavior through the work of Daniel Katz and Robert Kahn. They defined roles in terms of patterns of behavior, developed from specific task requirements, which are associated with positions in an organizational system. Roles thereby provide the avenue through which organizational members participate in daily activities or work. From this perspective, role behavior consists of the recurring actions of individuals, interrelated with the repetitive activities of others in the service of predictable outcomes. Roles thus serve as the building blocks of organizations. They are regulated by norms, the general expectations for role occupants. Through collective awareness of norms, organizational members develop shared expectations for themselves and others that guide predictable routines. These seminal ideas form the foundation for organizational role theory.

Scholars of recent work in role theory have attempted to reconcile views of role as either dynamically constituted (and reconstituted) through interpersonal interaction or imposed through societal structure and demands for conformity. Theorists such as Ralph Turner and Bruce Biddle have described the reciprocal process whereby relevant others provide information regarding expectations, which actors perceive with varying degrees of accuracy, interpret in light of other roles and associated expectations, and subsequently incorporate into their scripts and performances. Feedback from role set members begins the process all over again. This view has strong connections to cognitive theories of social behavior that detail processes of learning and development based on observation of social referents and the incorporation of iterative feedback into modified behavior. Research in this vein focuses on individual perceptions and interpretations of social expectations, as well as on the degree of ambiguity and consensus in those expectations.

### Importance

Role theory provides the underpinnings for some of the most important work in management theory. For example, theories of job design emphasize the need to clearly define tasks and responsibilities associated with work roles, in addition to specifying performance expectations. These directives are supported by research on role ambiguity and its negative effects on performance and job satisfaction. Leaders are directed to ensure that team members are aware not
only of their inclusion in a team but also of the roles that they have been selected to fill on the basis of their skills and knowledge. As teams undertake their performances, leaders facilitate integration with the role set, helping to both identify stakeholder expectations and communicate performance feedback to the team.

From an interactionist perspective, role theory is linked to research in the areas of identity and engagement. Actors will engage in a role to the extent that it allows them to express preferred identities through their performances. Absent these opportunities, actors will satisfy basic expectations but are unlikely to fully engage. In some cases, actors will not be satisfied with the expressive potential of their role as specified by the organization and will undertake job crafting to fashion positive identities, either by changing the tasks associated with the role, the manner in which they are performed, or, at the very least, reconceptualizing the meaning of those performances. These findings have implications for job design as well, namely, that managers hoping to elicit full employee engagement must provide opportunities to enact desirable identities through role performances. This approach goes beyond traditional concepts of recognition and prestige and can involve helping actors perceive the significance of their performance outside the immediate role set or leaving room within formal specifications for individual variation in performance. Managers willing to provide this latitude may discover the capacity for positive deviance, as actors augment their roles with additional tasks and prosocial behaviors.

Finally, role theory is at the heart of recent inquiries into work-family balance and how organizations can develop policies that help actors balance the expectations of professional and family roles. Managers should not assume that these roles are necessarily in conflict as evidence suggests that successful performance and positive feedback in family roles may enrich the performances of work roles, and vice versa, provided that expectations concerning acceptable performances can be conceptualized as complementary. Research indicates, however, that this is more easily accomplished for men, who reconcile roles as professionals and as providers, than for women, who seek to balance roles as careerists and caretakers. While work in this area continues, the message to managers is that one-size-fits-all policy approaches are likely to be flawed, and that actors should be involved in developing programs and setting expectations regarding work-family balance.

Role theory provides a valuable perspective on the reciprocal influence of social structure and individual behavior in organizations, as actors translate expectations into scripts for performance, while modifying those expectations and the definition of their roles through subsequent performances. The insights generated by role theory demonstrate the need for managers to account for the structural design of role expectations and relationships, as well as the ongoing change and construction that help actors respond to the situational demands of role performance and craft desirable identities within roles.

Steven Fellows and William A. Kahn

See also Management Roles; Norms Theory; Personal Engagement (at Work) Model; Social Exchange Theory; Systems Theory of Organizations

Further Readings
Schemas (also schemata or schema) theory can be defined as a set of ideas related to the cognitive structures that help individuals order, present, evaluate, and apply human knowledge and skills by dividing available information into meaningful units. This constructivist approach is important in many areas of modern life, including management, as it organizes past experiences in order to understand new situations and to make novel positions and environments more familiar—for example, by reducing ambiguity and enhancing comprehension. This entry approaches the complexities of schemas theory and its application in management by presenting the basic notions of schemas, together with the history of schema foundation and its relation to other theories and various types of schemas, paying special attention to the schemas related to business and organizational studies.

Fundamentals

The origins of schemas theory can be traced back to the 18th century, to the writings of Immanuel Kant, who discussed the allocation of experience into the concepts of higher order. Although philosophy provided the foundations for schemas theory, it is psychology that is most strongly correlated with schemas. The traces of schemas theory can be observed in the works of the first Gestalt psychologists, who researched the role of context in interpretation. Another area of study that has contributed to many research points in schemas theory is cognitive psychology—for example, in the investigation of the application of already-possessed knowledge to deduce and categorize new information. The 20th century was prolific in the writings of psychologists whose findings are used in schema theory, such as the work of Jean Piaget on infants or in the study by Frederic Bartlett on memory. Apart from psychology that simultaneously supplies knowledge to schema theory and benefits from its tenets, schema approaches are applicable in various fields of study, including sociology, linguistics, and law. Since schemas are created and stored in the brain, researchers engaged in neuroscience are also interested in using this approach to discuss mental functions, for example. As far as management is concerned, most organizational studies on schema theories are centered on the role of information and knowledge in the life of organizations. Among others, one field of organizational study that makes use of schema theory is public relations, with the application of schema approach to observe the reaction of stakeholders to media coverage and its implication for organizational communication. Advertising also benefits from schemas, which are used to persuade customers to buy certain products or services, by inducing certain moods, attitudes, and needs. Moreover, schemas are also used in intercultural communication, branding, and marketing to study the cultural differences of workers and stakeholders and their implications for the performance of organizations. Looking at schemas from the individual perspective of workers, schemas serve at least two functions for employees since they allow them to comprehend
organizational events and they provide information on required organizational behavior.

**Types of Schemas**

According to many classifications of schemas, they can be divided into person schemas, group schemas, self-schemas, role schemas, event schemas, and content-free schemas. Person schemas provide information on various types of individuals and facilitate the understanding of people's behavior. Group schemas (stereotypes) are related to group affiliations, including information, among others, on the race, ethnicity, and religion of constituting members. Self-schemas concern individual self-knowledge that makes a person behave consistently with one's opinions and beliefs. Role schemas are connected with information on social roles and concern mostly occupational duties or functions in various groups, teams, classes, or clubs. Event schemas (also called scripts or event sequences) provide the user with data on the order of actions in daily activities and some special or official situations, such as weddings, funerals, or job interviews. As far as the elements of event sequences are concerned, the scripts contain the theme, typical roles, entry conditions, and the order of actions. Content-free schemas deal with some information about the links between entities and elements, but not the content itself. What they stress are the relations among people and things and how these relationships and dependencies determine systems.

**Organizational Schemas**

In-organization schemas include self-in-organization schemas, person-in-organization schemas, organization schemas, object/concept-in-organization schemas, and event-in-organization schemas. Self-in-organization schemas are connected with how individuals view themselves in organizational environments, including aspects such as personality, values, roles, and behavior. These schemas help individuals react to organizational impulses by taking into account one's personal opinion on his or her position within the organization. Person-in-organization schemas are the memories, opinions, and expectations on some individuals or groups of people. These schemas help individuals understand organizational reality by assigning people to various organizational schemas—for example, regarding their position in a hierarchy. Organization schemas mirror how organizational culture is present in employees’ or stakeholders’ cognition by referring to the image or identity of organizations perceived by individuals. Object/concept-in-organization schemas concern organizational knowledge from the individual perspective that may vary among employees and stakeholders. Event-in-organization schemas are connected with one's knowledge on organizational social meetings. They may entail events such as organizational anniversaries or national holidays.

Since individual and social factors determine the schemas of particular organizations, the strength of schemas depends on their internal features as well as external environmental factors. When taking into account the personal sphere of organizational schemas, factors such as an individual's attention or motivation, past experience and future expectations, and upbringing, education, and social/professional situation can be enumerated. When analyzing meso-factors, issues such as types of organizations, their performance and goals, can be taken under closer scrutiny. In the case of a macro level, environmental factors such as the social, cultural, or political situation on the national or international level determine the characteristics of organizational schemas. Taking into account the strength of knowledge schemas (or scripts), they can be divided into weak and strong scripts. Weak scripts provide information on the behavioral events that are likely to happen, whereas strong scripts additionally help predict the future sequence of activities. As far as script usage is concerned, knowledge schemas can be used unconsciously (automatic script processing) and consciously (controlled script processing).

Schemas theory can be used by modern managers to be more effective at both the individual and organizational level since cognitive knowledge allows them to understand and shape their own performance as well as comprehend, predict, and facilitate various organizational behaviors.

Magdalena Bielenia-Grajewska

See also Actor-Network Theory; Behavioral Theory of the Firm; Critical Management Studies; Cultural Values; Meaning and Functions of Organizational Culture; Role Theory; Social Cognitive Theory
Further Readings


SCIENTIFIC MANAGEMENT

The theory of scientific management (or “Taylorism”) is most closely associated with Fredrick W. Taylor (1856–1815), who is generally considered the founding father not only of scientific management (as he called it) but also of management studies. Scientific management theory examines how to hierarchically structure factory organization and how to design job functions for factory workers, clerical employees, and operational, factory managers, the latter being conceptualized by Taylor as “functional foreman.” The ultimate purpose of the theory is to resolve, through proper incentives, potential conflict in interactions between employees and managers / employers. A key proposition of scientific management is to precisely set out job structures by defining in great detail job content, job accomplishment targets, work tools, time allowed to complete a job, and so on. Taylor conducted in this respect many “scientific” experiments in the factory to specify these job elements—for instance, through his famous/infamous stop-watch experiments. This led to widespread criticism of Taylor as mechanizing and dehumanizing work performance and entertaining a rather dark, mechanistic image of human nature. This was also a key issue of investigation when Taylor was summoned by the U.S. Congress to testify on the nature and program of scientific management. Scientific management theory has withstood the test of time with a very consistent body of ongoing research connecting to it, evaluating it, adopting it, and critiquing it, in fields as varied as organization theory (organizational economics, organization sociology, organization psychology, organizational anthropology, etc.), human resource management theory, business history research, the engineering sciences, and many others. In general, for many discussions of management theory, Taylor’s scientific management provides a starting point, a key reference point for critique and criticism or a point of comparison for developing agreeing or contrasting approaches to management studies. The subsequent discussion first analyzes the key theoretical features of scientific management. A second section deals with the historical evolution of scientific management and contemporary applications of this theory. A third section argues for the continued importance and relevance of scientific management, for the need to understand its key ideas and key premises but also to clarify certain misunderstandings that Taylor may have had when formulating and proposing his theory. This is important for both the further development of management theory and the understanding of and application of (elements of) scientific management in contemporary management practice.

Fundamentals

Taylor’s works are viewed by many as the origin and starting point of modern management theory. Scientific management theory emerged in force in
the last decades of the 19th century and the early decades of the 20th century in the United States. The typical corporate organizations Taylor encountered were companies that nowadays would be considered small-sized factories in the manufacturing sector, such as the steel industry. This type of small-scale factory organization began to replace in Taylor’s time very loosely coordinated structures, which only linked together a very small number of workers, mainly independent entrepreneurs.

A key starting premise of Taylor’s research was that workers tried to avoid and minimize work contributions in the factory. He spoke of soldiering in this respect, and broke down this idea into two elements: natural soldiering and systematic soldiering. By natural soldiering he meant work-avoiding behaviors that were “inborn” to humans, a natural inclination to laziness. Systematic soldiering, on the other hand, reflected a systemic problem of factory organization and management practice. He argued in this connection that ill-designed organization and management structures, which left workers to conceive their own jobs while rewards were fixed at the same time, were to blame for work performance problems on the side of employees.

Taylor’s concept of natural soldiering has led to widespread criticism that scientific management entertained a rather negative image of human nature, the worker being portrayed as lazy, opportunistic, and work avoiding. Early on, Elton Mayo led the human relations school in developing this criticism. Many later publications in fields such as organization psychology, organization sociology, industrial relations, and a significant amount of research in postmodern and critical management theory have advanced this position, too. If Taylor’s writings are taken at face value, this criticism has to be accepted. However, one can argue that Taylor fell for a self-misunderstanding regarding the idea of natural soldiering. Various points support this critical line of argumentation.

First, Taylor entertained in his theory the idea of systematic soldiering, which directed management research and management intervention toward a systemic problem (of ill-designed organization and management structures) but not at the human condition; only the latter would conceptualize workers as “naturally lazy.” From his conception and intervention strategies with management practice, as spelled out below regarding training systems, job structures, organizational hierarchy, and incentive systems, it is rather obvious that his theory was concerned with the systemic side of management, or the “logic of the situation,” to use a key phrase of Taylor’s. The idea of natural soldiering represents in this reading an unnecessary conceptual disconnect and distraction in his theory.

Second, the argument that Taylor fell for a self-misunderstanding regarding the idea of natural soldiering receives further support from an economic reconstruction of scientific management. Economics, conventionally understood, applies ideas such as self-interest or even opportunism and predation behavior, to follow the writings of Oliver Williamson and James Buchanan, in order to develop conceptual proposals, in systemic perspective (with regard to “economic institutions”): The purpose is to prevent self-interest, opportunism, or predation to derail cooperation among interacting parties. In organizational economics, the idea of self-interest constitutes a merely pre-empirical, heuristic method for analyzing potential cooperation problems, but not an empirical statement about human nature as such. This type of methodological argument can be transferred to Taylor’s concept of soldiering. Seen from this perspective, it becomes clear that all Taylor was after by invoking the idea of soldiering, even in its version as natural soldiering, was to develop systemic analysis and proposals to prevent any such problems (but not to interfere with the human condition in workplace organization, for instance, through sociopsychological strategies or other behavioral approaches).

Training Systems, Job Structures, and Organizational Hierarchy

For factory workers, clerical employees, and operational factory managers (“functional foremen”), scientific management set out in great detail how job structures were to be improved and specified; how job structures were to be hierarchically governed through the system of functional foremanship, which saw functionally specialized foremen interacting with and supervising workers; and how training and skills management was to be systematically provided to organization members (factory workers, clerical employees, the functional foremen).

The skills formation problem encountered by Taylor in the factory of the late 19th and early 20th
centuries was of a comparatively simple nature. The typical employee who entered the Taylorite factory then basically came with no industrial skills. Taylor's key methods to raise skills levels focused on job conception and the standardization of work procedures, tool usage, support processes to job execution, and so forth, as well as an increase in the functional specialization of skills. Through various, detailed individual case studies, Taylor outlined how individuals who had entered the factory with no or very low skills could be trained to do jobs at a considerably higher level of skills formation and skills application. The same approach applies, in principle, to what Taylor said about clerical employees and the functional foremen, although a considerable amount of his research and writings focused on factory workers.

A deskilling and degrading thesis has been prominently associated with scientific management, explicitly so by Harry Braverman from the 1970s onward, but indirectly already by the human relations school, and possibly as early as by the U.S. congressional committee that questioned Taylor in 1911/1912. Critical comments apply. The typical employees who entered the Taylorite factory were not craftsmen but unskilled immigrants, former slaves, or former farm workers. In addition, and as outlined, Taylor had a very distinctive program for skills development. This admittedly was of a comparatively simple nature, but it reflected the historic societal and business context in which industrial and management organization took root.

**Incentive Systems**

Scientific management proposed a distinctive system of incentives management, including a premium wage system, but also nonfinancial rewards, such as the reduction of work time, the provision of educational and recreational facilities, housing facilities, and other benefits. Taylor's key argumentation was in this respect that these incentives should not be uniformly provided to employees but in strict relation to work contributions and skills development. In this way, the "employee condition" or what Taylor otherwise termed *soldiering* should be systemically resolved.

Taylor's approach to handling and theorizing about incentive systems and how they were to be used in systemic perspective—to reduce problems arising from lack of skills in the factory, and the potential condition of soldiering—compares well to modern institutional and constitutional economic literature on the principal-agent problem. Some key writers in this tradition are James Buchanan and Oliver Williamson. Taylor explicitly spoke of potentially antagonistic (self-)interests of workers and employers, which caused conflict in the factory, and his key solution to this problem was to propose organization systems that incentivized work contributions with rewards so that the interests of employees and employers became aligned. Modern institutional economics uses in this connection the concept of *incentive-compatible* economic institutions, to apply a term of Williamson's. As a result, cooperation and mutual gains (win-win outcomes) materialize for the parties involved. What Taylor called the employee condition is then resolved in economic, systemic terms. Scientific management reflects in this respect a mutual gains model with a pluralistic understanding of industrial democracy. As such, its association with a so-called unitary ideology, as it has been promoted by some in the industrial relations literature can be called into question.

An institutional economic reconstruction of scientific management easily succeeds in this manner, demonstrating that Taylor anticipated many ideas of modern institutional economic theory and even some of its pitfalls, especially regarding the concept of natural soldiering, which can be found, in different albeit comparable terminology in some modern economic research on empirically (mis-)claimed, lazy, opportunistic "human nature."

**The Managerial Condition: Hearty Cooperation**

Taylor had a clear understanding that deep conflicts of interest existed between employees and managers/employers. He was very much aware that cooperation in an organization could be derailed (through soldiering) not only by workers/employees but also by the top company managers/employers. For instance, Taylor argued that incentives allocated to workers for sustained and high-skills contributions needed to be permanent, and it should not be feasible that raised rewards be taken back by management ad hoc. In distinction from the employee condition, however, Taylor targeted the managerial condition nearly exclusively in empirical behavioral, sociopsychological terms but not in economic ones.
He proposed the concept of hearty cooperation, to be achieved through the “great mental revolution of managerial attitudes.” In this manner, he aimed to resolve the managerial condition. No systemic, economic proposals were put forward to handle this conflict problem and to prevent managers/employers already on grounds of self-interest to renege on incentive promises that had been made to employees.

As indicated above, Taylor did not clearly understand the need and purpose of differentiating natural soldiering from systemic soldiering. When conceptualizing the employee condition, this lack of understanding in relation to empirical, behavioral concepts did not derail his theory since he basically applied the concept of soldiering in economic terms (as “systematic soldiering”) and thus could successfully deal with the problem of employee opportunism, as outlined above. Regarding the managerial condition, however, his lacking understanding of how to conceptually handle soldiering had graver consequences since he erred on the side of socio-psychological and sociological proposals in order to conceptually handle this issue. As laudable as behavioral proposals may be in themselves, they are noneconomic and do not resolve basic problems of underlying (interest) conflicts that relate to the guarantee of incentives and the systemic economic resolution of conflicting interests between employees and managers.

In terms of practical problems, Taylor realized with hindsight that the real implementation problems and cooperation conflicts that management encountered in his time were caused by management, not by workers. The key problem was that in many instances, managers and employers had reduced incentives—for example, cut wages or taken-away fringe benefits—and as a result, strikes against scientific management had happened. This subsequently led to Taylor’s summoning by the U.S. Congress. The chairman of the inquiring congressional committee pointed out this problem when reminding Taylor that managers and employers should not have been modeled as intrinsically “hearty” cooperative parties, with revolutionized mental attitudes, but as “lions.” Modern institutional economics can conceptually deepen this proposal by projecting the idea of lions to opportunistic and predatory behavior, as it reflects models of (extreme) self-interest. Such models are widely applied (in heuristic, non-empirical, methodical terms) in institutional and constitutional economics.

**Evolution**

As noted, a fundamental conceptual asymmetry existed in the scientific management approach, as it was initially proposed by Taylor: For employees, self-interested, even opportunistic behavior was explicitly acknowledged and systemically handled; for managers, such behavior was aimed to be behaviorally resolved. This led to significant implementation problems for scientific management in Taylor’s time; to strikes against scientific management because of uncooperative, opportunistic managerial behavior (“managerialism”); and ultimately to Taylor’s being summoned by the U.S. Congress. Only after Taylor’s death did his followers begin in force to revise scientific management with regard to managerial opportunism. One important change was that unions were brought into work organization to strengthen employee rights and control manager opportunism. Union involvement in tasks such as negotiating and setting wage levels and other rewards for organization members removed such tasks from the sole sphere of influence and control of managers/employers.

By the 1920s, this moved scientific management, in its revised version, closer to being considered a rather “complete,” generic theory, especially when read as an institutional economic organization theory. Modern institutional economic research (e.g., that of Oliver Williamson), explains the emergence of unions in a similar manner, as a constraining influence of management opportunism, although the economic reconstruction of scientific management has generally not been picked up by this research tradition.

Nevertheless, a considerable amount of management theory has not appraised scientific management in its revised version. Rather, in many instances, fragments and selected elements of the original scientific management approach were picked up when connecting to Taylor’s research. The efficiency-oriented works of Frank and Lillian Gilbreth or of Henry Gantt are exemplary in this respect, as is Fordism, which focused on division of labor and work standardization techniques.

Similarly, in the further course of the 20th century, managers in many countries have drawn on some of Taylor’s proposals and his suggestions on work standardization to reorganize organization structures. A substantial body of empirical research documents this. Also, Taylor’s suggestions have been
Explicitly or implicitly connected to many modern approaches to work organization, albeit often in a rather selective, eclectic manner that does not do justice to the conceptual framework Taylor set out. Certain concepts of management by objective (MBO), total quality management (TQM), business process reengineering (BPR), or just-in-time (JIT) management are exemplary and can easily be classified as neo-Taylorism. The McDonaldization literature and the management practice it critiques at least implicitly targets Taylorite ideas on work organization too, but again, both the management practice concerned and its conceptual critique tend to reflect a fragmentary understanding of Taylorism (already with regard to its original version and the more so regarding its revised version from the 1920s).

Importance

For various reasons, scientific management theory is still of high, continued relevance and significance to management theory and practice. First, since the initial publication of concepts of scientific management around the turn of the 19th to the 20th century, management theory and practice has continually critiqued and reassessed scientific management. Yet hardly any textbook in management and organization studies has been published with some kind of deeper evaluation of scientific management. For this reason, scholars, researchers, and consultants who engage with management practice, as well as managers and students of management, need to be aware of what scientific management stands for.

Second, from early on, criticism of scientific management as a mechanistic, dehumanizing management concept has not abated. Most recently, some writings in postmodern and critical organization theory have (re-)advanced such claims, especially so since certain modern technology concepts, such as advanced manufacturing systems, computer-based information systems for structuring work organization, and MBO, BPR, TQM, and JIT techniques seem to connect to work standardization techniques reminiscent of Taylorism. Criticism of scientific management as dehumanizing work had to be accepted if one interpreted scientific management and neo-Taylorism as a behavioral, sociopsychological or sociological theory of management. However, the important question in this connection is whether this does justice to what Taylor was really after when setting out his management concepts.

Institutional economic reassessments of scientific management warn in this connection that scientific management is much closer to organizational economics than to any other research program on management. Seen from this perspective, the upskilling of labor in the factory through structural reorganization, which scientific management envisaged, and the rising rewards allocated to organization members in relation hereto allow for a positive image of human nature evaluations for scientific management. Such images of human nature assessments are the more feasible when put into perspective with regard to the historic, socioeconomic context in which scientific management emerged, with largely unskilled and ethnically diverse labor entering the company in Taylor’s time, both at the worker level and the management level.

Third, scientific management is an excellent case study of a partly incomplete, partly inconsistent management theory, Taylor being caught up between organizational economics and behavioral organization research. The conceptual asymmetry regarding his theorizing on the employee condition and the managerial condition reflected this. Such inconsistency may be hardly surprising considering the early days of management theorizing when scientific management emerged. Concepts of modern institutional economics, as they were abstractly developed in force by James Buchanan and Oliver Williamson from the 1960s and 1970s onward, most fruitfully help to understand and clarify such misunderstandings in the scientific management approach, and they illuminate why Taylor’s followers modified the scientific management approach with regard to unionism after his death in 1915.

Modern management is well advised not to simplistically reduce scientific management to a program of work standardization techniques. The theory is much more complex, centrally aiming at the resolution of cooperation conflict between managers/employers and employees. Despite being more than a century old, Taylor’s theory has a lot to say on this issue, especially so when assessed from an institutional economic perspective and when corrected for certain (self-) misunderstandings Taylor may have had when dealing with the problem of managerial opportunism in the organization.

Sigmund Wagner-Tsukamoto
See also Agency Theory; Business Process Reengineering; Critical Management Studies; Equity Theory; Humanistic Management; Management by Objectives; Managerialism; Organizational Structure and Design

Further Readings


**SELF-CONCEPT AND THE THEORY OF SELF**

As a psychological construct, the *self* has long occupied a preeminent place in both psychological and management theories regarding human behavior. In fact, the self is among the most widely studied concepts in the social sciences. The substantial attention afforded the self as a topic of research is hardly surprising given that it has been viewed as a primary locus of human motivation and agency, as well as judgment and decision making. This entry first describes some of the prominent definitions and conceptions of the self and summarizes some of the major constructs associated with it. The next section then elaborates on why the self—and theory about the self—is so important to organizational theory and management practice. The concluding section outlines some of the most recent and important developments in the conception of the self and its role in organizational life.

**Fundamentals**

What precisely do we mean by the self as a psychological entity? Defining what we mean by the self or, more precisely, an individual's *self-concept*, has proven a daunting task and one that has preoccupied psychologists of every generation since the discipline's inception. As a result, there exists today a bewildering proliferation of definitions, theoretical frameworks, and empirical evidence regarding the self's nature and origins and the consequences of its actions.

In laying a foundation for how best to think about the self, social psychologist and leading self theorist Mark Leary has proposed the notion of *selfhood* to connote the aggregate thoughts, feelings, and behaviors that arise from people's awareness of themselves as possessing a self that operates as both subject and agent. The *self-as-object* represents the agentic actor that we experience when we actively engage the world and interact with other people. The *self-as-subject*, in contrast, encompasses the more phenomenological dimensions of selfhood, including the experiencing, knowing, and reflective dimensions of selfhood that people associate with their self-awareness.

An important contribution to our understanding of the self as a psychological entity came from early work on *self-schemata*. Self-schemata are defined as the basic cognitive structures regarding the self that function to organize and shape how people process self-relevant information. Research by Hazel Markus and others has demonstrated substantial individual differences, as well as cross-cultural variations, in the way the self is conceptualized or construed. Among the most important distinctions has been the idea of independent self-construals.
versus interdependent self-construals. Independent self-construals are defined in terms of individuals’ distinctive attributes and traits and have been associated largely with individuals from Western cultures, with their characteristic emphasis on individual reasoning and choice. Interdependent self-construals, in contrast, have been conceptualized in terms of individuals’ relational connections to others and are widely associated with Eastern cultures, which tend to focus on more collectivistic modes of thinking and behavior. Researchers have also recognized, however, that considerable individual differences exist with respect to both the content of our self-schemata and self-construals, even within a given culture or point in time. Moreover, people’s self-construals have been shown to be highly dependent on social contextual factors.

Multidimensional Nature of the Self: The Self as Kaleidoscope

A large body of theory and research over the past several decades has demonstrated the fundamentally multidimensional nature of the self. Marilynn Brewer’s work, along with that of other social identity theorists, has shown that the psychological self includes an individual-level self-concept, an interpersonal or relational self-concept, and a collective self-concept. The individual-level self-concept refers to all the personal and distinctive attributes we associate with ourselves as unique individuals. The relational self-concept reflects our dyadic relationships with others. Finally, the collective self-concept encompasses and reflects our larger social group memberships. Based on these theoretical distinctions, numerous laboratory experiments have demonstrated that even subtle variations in language can “cue” the activation of these different senses of self, resulting in significant changes in psychological and behavioral consequences. For example, experiments on choice behavior in social dilemma situations (i.e., situations where a conflict exists between individual interests or well-being and a group’s interests or well-being) have shown that cuing or making the individual self more salient results in relatively “selfish” choices in such situations, whereas activating the collective self results in more group-oriented, cooperative behavior.

On the basis of such evidence, as well as the results of many other studies, social psychologist Kay Deaux has gone so far as to characterize the psychological self as fundamentally kaleidoscopic. This metaphor, she proposes, succinctly captures the shifting, varied, and multifaceted experiencing of the self and its many manifestations across differing contexts and under differing motivational orientations or needs. As a consequence, she argues, there is considerable plasticity in the way the self is experienced and construed.

Along similar lines, motivational theories regarding the self highlight the role that individuals’ psychological needs and goals play in self-expression and behavior. Among the most important motivational constructs is self-efficacy. Self-efficacy refers to people’s beliefs regarding their capacity to achieve their desired goals and objectives. The complex and varied effects of such motivational processes on self-assessment is also evident in competing ideas or images regarding the ultimate goals underlying our self-related cognitions and behaviors.

Motivational conceptions grounded in self-esteem maintenance, for instance, posit that individuals will think and act in the service of protecting or maintaining their sense of self-worth. Self-enhancement theories, in contrast, posit that individuals are motivated to distort judgment in the direction of overly positive self-appraisals. Finally, self-verification theories argue, provocatively, that individuals are motivated to confirm self-images, even when those images have negative implications for self-esteem or self-enhancement. Research on self-affirmation provides another cogent example of how motivational processes can drive self-assessment and the content of self-perceptions. Claude Steele and others have shown that when one part of a person’s sense of self is threatened, people can invoke other positive or untarnished aspects of self in an almost compensatory, restorative fashion.

Importance

Much of the psychological theory and research on the self has highlighted the largely functional roles that our construal and understanding of self plays in human behavior. This functional perspective is evident in organizational perspectives on the self as well.

Adaptive Nature of the Self

Among the most important functional capacities of the self are self-awareness, self-regulation, and
self-reflection. Self-awareness refers to our capacity to develop a conscious awareness of the self as both a subject and object capable of engaging the world in particular ways. Self-regulation refers to our capacity to think and act in the service of goal pursuit and other important motives and also to inhibit counterproductive thoughts and behaviors. Finally, self-reflection reflects people's capacity to observe their actions and their consequences, to change their self-concepts in the face of their cumulative experiences, and to better regulate their future thoughts, feelings, and behaviors. In concert, these three functional capacities contribute to the ability of the self to navigate effectively in the world. Understanding and effectively engaging these three capacities is particularly useful for managers insofar as one of the vital jobs of the manager is to influence the attitudes and behaviors of those individuals under his or her management. By harnessing individuals' self-awareness, self-regulatory capacities, and self-reflective strengths, managers can more fully use the human capital under their management.

Self-Relevant Processes and Their Organizational Implications

A number of self-relevant functional psychological processes have proven particularly important to organizational theory and management practice. The first of these pertains to self-evaluation processes. Self-evaluation processes reflect those factors that influence people's assessments of themselves, including their capabilities and their experiences in organizations. These evaluative processes include individuals' judgments regarding their abilities, their expectations about their performance, their sense of entitlement, and whether they are being treated fairly in their exchanges within an organization.

Psychologists have extensively studied self-esteem as one major psychological dimension along which people evaluate their individual abilities. Although some psychologists treat self-esteem as a personality variable, others have noted the important role that situational factors can play in the development and maintenance of low or high self-esteem. Self-categorization represents another major psychological process that helps people locate themselves in the social order of an organization and define themselves relative to other people in that organization. People can self-categorize in terms of many different dimensions, but research suggests they do so most often and readily in terms of the prominent and salient social categories to which they belong and with which they identify. The major, and also widely studied, social categories pertain to individuals' race and gender. These social category memberships also play a pivotal role in how people evaluate others via the process of social stereotyping. Although less widely studied, age-related self-categorizations and stereotyping have been recognized increasingly as important social categorization processes as workforces around the world age.

Social comparison can also be used to help individuals assess themselves across a variety of important organizational dimensions, including their comparative abilities and performance. The particular type of social comparison individuals engage in, however, can be affected by their motives for comparing. For example, individuals can use downward social comparisons (i.e., compare their performance against others who are less capable or doing less well) to bolster their perceptions of ability or enhance their feelings of self-worth. On the other hand, they can employ upward social comparisons (i.e., compare their performance with others who are more accomplished or expert) to learn how to perform better. Individuals can also use nonsocial comparisons to assess their progress or regress on some dimension (e.g., compare their own performance or skill level when they were first hired by an organization to their current performance or skill level).

Bias and Distortions in Self-Awareness and Self-Appraisal: How and Why the Self Gets in Trouble

Given the adaptive value of the self-schemata and accurate self-knowledge, as embodied most famously in the Greek admonition to “know thyself,” one might presuppose that people's self-concepts progress toward increasingly veridical or accurate self-conceptions. Yet research has shown instead that, however desirable and adaptive such accurate self-knowledge might seem, it nonetheless is not easily attained. In this regard, Shelley Taylor and others have convincingly demonstrated that people suffer from a variety of self-enhancing illusions and other self-related distortions. Psychologist David Dunning has elaborated on this perspective, documenting and organizing our understanding of the substantial and robust barriers to self-insight that such positive illusions foster.

Although much of the psychological literature on the self highlights the functional and adaptive
properties of people’s self-concepts, other work has highlighted the stresses of selfhood and the sundry barriers to its attainment. For example, social psychologist Roy Baumeister’s research highlights the myriad creative ways individuals find to escape the “burdens” of selfhood. Such work has contributed to our understanding of the origins and dynamics of paradoxical forms of self-denigration, including masochism and other seemingly paradoxical forms of self-destructive behavior. Similarly, research on self-defeating behavior and self-handicapping illustrates the complex and perversely ingenious ways in which individuals can sabotage themselves when pursuing seemingly important goals. Choking under pressure provides one example of such self-sabotage or undermining.

Research on self-presentation or impression management might lead one to conclude that an individual’s publicly presented self is, at best, an ephemeral, fickle, and self-consciously “strategic entity,” ever responsive to changing goals, audiences, and/or concerns about conforming to cultural norms and social conventions. In short, individuals are motivated to put their “best face” forward and adapt that best face to suit the circumstances of the moment. Yet a more positive framing of this literature highlights the responsive, adaptive nature of people’s skillful self-presentations. Psychologists have increasingly recognized the inherent sociality of human beings: We are motivated to fit in and get along. Thus, individuals do care about their status and standing in the social groups to which they belong and attach psychological importance. As social identity theorists have shown, this so-called social self is inherently relational and, by implication, responsive to the presence of others.

The Cutting Edge and the Future of Self Theory and Research

Psychological and organizational research on the self progresses at an impressive pace today. Although research continues in all the areas identified above, several additional streams of research have recently had an impact on our understanding of the self.

One major area of current research attempts to approach our understanding of the self from the perspective of evolutionary theory. Evolutionary psychologists have proposed, for instance, that it is more useful to think of the evolved psychological self as modular rather than conceiving the self as a single, coherent psychological entity. These psychologists note that the human brain itself evolved in a modular fashion, with newer parts of the brain literally being superimposed or “added onto” older parts. From this perspective, these theorists argue, it is not at all surprising that self-conflicts, competing motives, internal dissonance, and other manifestations of our multiple selves lead to competition for attention, the pursuit of incompatible goals, and other seeming inconsistencies in attitude, affect, and behavior.

Neuroscientific theories and methods represent another exciting direction of research that is rapidly advancing knowledge regarding the self. For example, brain-imaging studies are illuminating our understanding of the organization of the self in the human brain and how and where self-relevant information is stored and processed. Finally, cross-cultural theory and research on the self is emerging as increasingly important to management scholars, given the globalization of business and the increasingly multinational character of large, complex organizations.

As this brief entry is intended to make clear, research on the self remains one of the most active areas of psychological research in contemporary management theory. Among the most useful implications of this research for managers is recognition that the adequacy of their knowledge regarding the psychological complexity of the self will directly impact their ability to effectively motivate and influence others’ organizational behavior. Second, their ability to regulate their own behavior, especially in leadership contexts, will depend on the complexity of their own self-representations and level of self-awareness. In a very real sense, therefore, managers’ self-knowledge constitutes a foundation on which their leadership effectiveness ultimately depends.

Roderick M. Kramer

See also Self-Determination Theory; Self-Fulfilling Prophecy; Sensemaking; Social Cognitive Theory; Social Identity Theory; Theory of Self-Esteem

Further Readings

Self-determination theory (SDT) is an empirically based theory of human motivation, optimal functioning, and wellness. SDT assumes that people have an inherent growth tendency, which is referred to as the organismic integration process. Through this process, development occurs both by the unfolding of intrinsic motivation and interests and by the process of internalizing practices and values from the external world. Accompanying people’s development and ongoing functioning are subjective human experiences of autonomy, competence, and relatedness, or what in SDT are called people’s basic psychological needs. That is, SDT relies on human experiences related to these three basic needs as the central inputs to development and functioning and also as an important focus for testing hypotheses empirically. Experiences related to these needs are assessed through subjective reports as well as a variety of supplementary methods from brain imaging to implicit measurements and priming of nonconscious motivational processes. Although SDT is a complex theory that will only be partially reviewed herein, at its core it proposes a multidimensional motivational model that is unified by the concept of autonomy. SDT then deals with how to promote the most functional types of motivation—that is, the types associated with optimal functioning and growth.

SDT also specifies individual differences, called general causality orientations, that represent the type of motivation a person most typically embraces, and it also differentiates the nature and consequences of people’s life goals or aspirations, which shape both proximal behaviors and individuals’ overall wellness trajectories. Each of these fundamental issues is addressed in the next sections; the final section discusses empirical evidence specific to the field of management.

Fundamentals

Self-determination theory proposes two overarching types of motivation: autonomous motivation and controlled motivation. When people are autonomous, they act with a full sense of volition, choice, and congruence. When controlled, they act with a sense of pressure, tension, and demand. To understand more fully the meaning of autonomous and controlled motivation, it is helpful to begin with the distinction between intrinsic motivation and extrinsic motivation.

Intrinsic motivation is defined as doing an activity out of interest and enjoyment—that is, for its own sake. A child playing with toys, or with the packages they came in, is a beautiful example of intrinsic motivation. But intrinsic motivation is not limited to children’s play—it is evident in sport, learning, gaming, and other challenge-seeking activities throughout the life span. It is important in adults’ learning of new information and gaining new skills and competencies, and thus it is important in both work and play environments. Intrinsic motivation is the prototype of autonomous motivation, for when acting out of interest and enjoyment, people feel a full sense of willingness and endorsement of what they are doing.

Extrinsic motivation is defined as doing something for an instrumental reason, to obtain separate consequences, such as gaining rewards or approval, avoiding punishments or criticism, boosting self-esteem, or living up to deeply held values. These various reasons, while all instrumental, are quite different and have been found to lead to different performance and affective outcomes. Therefore, SDT has specified different types of extrinsic motivation that vary in terms of the degree to which they are autonomous.

The most controlled, or least autonomous, form of extrinsic motivation is called external regulation.
Such behaviors are perceived as being controlled by concrete rewards and threatened punishments. It involves rewards (e.g., monetary rewards, plaques, approval, or promotions) or punishments (e.g., pay cuts, sanctions, ostracism, or job loss) that are either tangible or social. Although external regulation can powerfully motivate behavior in the short term, it is often poorly maintained, and it often does not engage the person’s maximal talent or effort.

Whereas externally regulated behaviors are initiated and regulated by contingencies outside the individual, some controlled forms of behavior are initiated and regulated within the person. This means that internal regulation is not necessarily autonomously regulated, and it is certainly not necessarily intrinsically motivated. People can take in or, in the parlance of developmental psychology, internalize controlling regulations from their environments that were initially external to them and that remain controlling. Some of these internalized values and regulations may initially be in conflict with the individuals’ desires, but it is possible that people will accept them as their own and make them part of their sense of self. Stated differently, people can internalize values or regulations to differing degrees, and this will have quite different consequences for motivation, behavior, persistence, and well-being.

First, there is a type of behavioral regulation in which people take in the regulations but don’t really own them as their own, so the regulations have to be enforced by internal pressures, referred to as introjection. Introjected regulations are buttressed by guilt, shame, anxiety, pride, and the desire for feelings of self-worth. In other words, with introjection, people’s self-esteem has become contingent on living up to the internalized external standards, so the people feel pressured and controlled by these internal contingencies.

In contrast, identification describes a more fully internalized form of behavioral regulation in which an external contingency is taken in as a new personal value. People will have identified with the importance of the behavior and thus will have accepted it as their own. When regulated by identifications, they will act with personal conviction and feel a sense of volition and willingness. Identified regulation therefore represents a type of autonomous extrinsic motivation. Finally, when identifications have been assimilated with people’s sense of self—with their needs, values, and other identifications—the regulation is considered integrated, and represents the most mature form of extrinsic motivation. Identified and integrated regulations are not considered intrinsically motivated because the behaviors are still done for instrumental reasons and not out of interest and enjoyment of the activity itself.

To summarize, external and introjected regulation are considered controlled forms of regulation, whereas identified, integrated, and intrinsic regulation are consider autonomous. The first four types of regulation are forms of extrinsic motivation and the fifth is intrinsic motivation. These five types of regulation line up along a continuum of relative autonomy in the order presented in the previous sentence. All five of these are bases for people’s motivation, although they are of different types, and they stand in contrast to amotivation, which refers to a lack of motivation, intentionality, and regulation.

Factors That Affect Autonomous Motivation

A second important aspect of SDT, in addition to the differentiation of motivation, is the proposition that all human beings have basic psychological needs, the satisfaction of which are essential for psychological health, well-being, and effective functioning. The theory specifies three such needs—the needs for competence, autonomy, and relatedness. These needs were not just proposed on the basis of personal experience or intuition; rather, they were found to be the most effective way of providing a meaningful account for the many phenomena that were emerging from the research on intrinsic and extrinsic motivation. Hundreds of empirical investigations, including cross-cultural research, have found that these needs are in fact universal and that their satisfaction is associated with optimal functioning because their presence versus absence has predicted increases versus decreases in well-being, self-regulation, and performance. Competence refers to taking on stimulating challenges and mastering aspects of one’s environment; autonomy refers to feeling volitional and willing in the regulation of one’s behavior, as opposed to feeling heteronomous and pawn-like; and relatedness refers to having meaningful social interactions, to feeling cared for by other, and caring for them.

One of the important functions served by specifying these psychological needs is that it allows
people to make predictions about what aspects of the environment—for example, task characteristics, management styles, and interpersonal factors—will facilitate intrinsic motivation, internalization, well-being, and performance. Simply stated, environmental factors that support satisfaction of the basic psychological needs are expected to promote autonomous motivation and its consequences, whereas factors that diminish or thwart satisfaction of the needs are expected to undermine autonomous motivation, promoting either controlled motivation or amotivation, and therefore having more negative consequences.

More specifically, in work environments where the selection of personnel is based on skills, abilities, acquired knowledge, and the capacity of employees to feel optimally challenged by the job, where training and developmental opportunities are offered, and where constructive feedback is given, the employees are more likely to feel competent. In work environments where strategic goals are explained to employees, participative management is used, and employees are allowed to take initiative and have a voice, they will be more likely to experience autonomy. Finally, in work environments where interactions are fostered by the design of jobs, teamwork is fostered, and managers listen to and respect their employees, the employees are more likely to feel high relatedness.

Among the most striking and controversial discoveries that have emerged from SDT research is that tangible rewards can often undermine intrinsic motivation, and they do so under quite clear and predictable conditions. Numerous laboratory studies have shown that when rewards are administered contingent on engaging in a particular task, completing the task, or achieving a certain level of performance on it, people are likely to become less intrinsically motivated for the task because their engagement in it depends on the rewards and they experience a sense of pressure. These experiences decrease satisfaction of the individuals’ need for autonomy, which diminishes their interest and enjoyment in the rewarded tasks they initially found to be fun. In effect, rewards can turn a pleasurable task into drudgery. But because rewards can also function as feedback, they can also serve to enhance feelings of competence when that feedback is positive. This means that rewards can both provide competence need satisfaction and deprive autonomy need satisfaction, and it is the net effect that determines the rewards’ effects on intrinsic motivation. Often, this is influenced by whether the general ambience of the workplace is supportive versus controlling. Other events in the environment, such as deadlines, surveillance, and competition, have also been shown to undermine intrinsic motivation, especially when they are used to pressure or control people’s behavior. These findings have important implications for management as workplaces are often fraught with such means for controlling behavior or performance.

Individual Differences

Individual differences focused on how people appraise their environments and regulate their behaviors are referred to as causality orientations and are crucial determinants of their motivation. Some people are more sensitive to environmental controls and consequently feel more readily controlled than others. These people who are high in the control orientation look for cues in the environment that will tell them what is expected of them, and they tend to feel pressured by those cues when initiating and regulating their behaviors. Indeed, they rely on environmental controls such as deadlines or reward contingencies to regulate their behavior; their internal controls (i.e., introjects) are easily stimulated, and they tend to select jobs based on status and pay. They also tend to evidence the Type A behavior pattern, which is related to health problems, and to be controlling and critical when in managerial positions. In contrast, some people tend to experience a sense of autonomy and choice when initiating and regulating their behavior, even in situations where others might experience control. These people are high in the autonomy orientation, and they tend to be quite proactive. Such individuals are more likely to select jobs that allow initiative, to interpret feedback as informational, and to make choices based on their own interests and values. They tend to behave in ways that are more coherent with their values and attitudes and, as such, are likely to make better managers. The different strengths in the autonomous and controlled orientations emerge out of developmental experiences with the environment, such as with parents, teachers, and peers who tend to be autonomy supportive versus controlling. Indeed, when the ongoing environment has supported satisfaction of the basic needs for autonomy,
competence, and relatedness, people tend to be more autonomously orientated in their lives.

Other research examines how individual differences in people’s life goals or aspirations develop and affect their lives. People who have strong extrinsic aspirations or goals, such as amassing wealth, having an attractive image, and being popular and well-known, generally report lower well-being than people who hold strong intrinsic life goals, such as meaningful affiliations, community involvement, and personal growth, regardless of the levels of success or efficacy at the goals. People with strong extrinsic goals also tend to be more Machiavellian and less cooperative, to act more prejudicially, and to take more health risks. The development of intrinsic and extrinsic aspirations depends on the satisfaction versus deprivation of the basic psychological needs: When the needs are more satisfied, people tend to adopt more intrinsic life goals. Education can also have an impact on the development of aspirations, even among adults. It has been found that students in law and business schools tend to develop more extrinsic life goals, whereas undergraduate students in arts and science tend to develop more intrinsic life goals during their educational years, largely as a function of internalizing the ambient values they see around them.

Evolution

Motivation concerns the forces that move people into action. Many earlier theories of motivation located the moving forces of human behavior in external sources—most notably, rewards and punishments. But SDT has been a central paradigm that has changed that vision and promoted the understanding that, although rewards and punishments are one source of human motivation, they are not the exclusive, or even the most effective, drivers of behavior. Instead, SDT has focused on the sources of volitional motivation and people’s autonomous engagement within work, play, and relationships.

The theory has been developed over the past 40 years by Edward L. Deci and Richard M. Ryan at the University of Rochester, along with many collaborators from around the world. SDT has organized much basic, applied, and translational research in fields as diverse as management, health care, education, sport and exercise, religious motivation, and virtual environments. This breadth of application stems from the fact that a central focus of SDT is on factors that support volition and choice, which is central in each of these domains because people’s willing participation in such endeavors is associated with maximal persistence, quality of performance, and positive experience.

Richard M. Ryan and James P. Connell developed an approach to measuring the different types of motivations that has been used with many ages, activities, and domains. The approach involves asking people why they do a behavior or set of behaviors (e.g., doing their homework, taking prescribed medications, or doing their jobs) and providing them with reasons representing the different forms of motivation that participants respond to on a Likert-type scale indicating the degree to which each reason applies to them. This method has been used in hundreds of studies in the fields of work, education, sport, exercise, parenting, leisure, and health behavior change. All in all, research has shown that these same types of motivation can be applied to the different activities and that the more autonomous types of motivation (identified, integrated, and intrinsic) tend to be associated with more positive outcomes, such as coping strategies, mental health, effort, enjoyment, or quality of learning and performance than do the controlled types (external and introjected), across domains, genders, socioeconomic status, and cultures.

Importance

Self-determination theory is increasingly being used to understand the effects of management practices on employee motivation, engagement, performance, and well-being. Not only has it been used to show how managerial behaviors that support the three psychological needs influence performance and well-being across cultures, but it has also been applied to show why transformational leadership behaviors influence performance, commitment to organizations, and job satisfaction. It has even recently been applied to show that occupational health and safety inspectors who support psychological needs when dealing with workplace conflicts are more effective in getting organizations to adhere to regulations. In short, managers who provide a vision or goals with a good rationale for them, who consider their employees’ needs and empathize with them, who provide them with choices and opportunities for initiative, and who believe in their capacities have employees...
who are more autonomously motivated. This in turn translates into greater employee loyalty and satisfaction, job persistence versus turnover and burnout, and higher quality job engagement and performance.

One might ask whether this is trainable, and the answer is yes. Studies have shown that training managers to be more supportive of the three needs enhances employee motivation, trust in management, commitment to the organization, and job satisfaction. But training is not enough. Managers also need to experience less pressure themselves if they are to be autonomously motivated and supportive of subordinates’ psychological needs. Therefore, organizational structure, culture, and practices are also important.

Jobs that provide variety, challenge, feedback, and decision latitude also foster more autonomous work motivation. This can be achieved through motivational job design, teamwork, and participative management. It has also been shown that employees who feel in sync with the goals and requirements of the organization, group, and task challenges are more likely to experience high need satisfaction, which in turn is associated with their performance and commitment to the organization. Need satisfaction and autonomous motivation are associated with better job performance than controlled motivation. These motivational factors have also been associated with better workplace mental health, decreased risk of burnout, commitment to the organization, and personnel retention.

Individual differences have been shown to influence worker outcomes as well. Autonomy orientation has been related to higher work-related well-being, performance, and engagement. Intrinsic work values have also been related to interest in training, the ability of unemployed people to find a job, job satisfaction, engagement, and positive work adjustment. More recently, core self-evaluations, another individual difference whereby people vary in terms of four traits (self-esteem, self-efficacy, internal locus of control, and low neuroticism), have been positively related to autonomous motivation toward work goals, which in turn was associated with job satisfaction and goal attainment.

What is ironic is that the means most frequently taken to promote worker motivation in organizations, such as rewards, surveillance, and competition, often do not have the intended effects. The controlled motivation fostered through these means is generally unrelated or even negatively related to the outcomes desired by organizations: energized performance, sharing, and well-being. Although not all work is intrinsically motivating, even for uninteresting tasks, the person needs to feel competent, autonomous, and related in order to engage in those tasks and develop an autonomous type of extrinsic motivation for them. Therefore, it is management practices such as adequate selection, training opportunities, constructive feedback in performance evaluations, decision-making power, transparent communication, teamwork, and good leadership that foster autonomous work motivation. To conclude, self-determination theory offers very useful advice on how to ensure employee engagement, performance, and retention, which ultimately lead to organizational effectiveness.

Marylène Gagné, Edward L. Deci, and Richard M. Ryan

See also Empowerment; Job Characteristics Theory; Organizational Commitment Theory; Reinforcement Theory; Transformational Theory of Leadership

Further Readings

SELF-FULFILLING PROPHECY

The self-fulfilling prophecy (SFP) occurs when the expectation that an event will happen increases the likelihood that the event does indeed happen.
A common economic example is when our expectations that prices will rise lead us to buy more or sooner, contributing to aggregate demand: The collective “we” then witnesses price rises that we abetted, most often without any awareness of our own role in making it happen. The Pygmalion effect is a special case of SFP in which raising a manager’s expectations regarding worker performance boosts that performance. The Pygmalion effect debuted in educational psychology when psychologists experimentally raised elementary school teachers’ expectations toward a randomly selected subsample of their pupils and thereby produced greater achievement among those pupils than among control pupils. Subsequent research has replicated this phenomenon among supervisors and subordinates in military, business, industrial, and service organizations and among all four cross-gender combinations; both men and women lead male and female subordinates to greater success when they expect more of them. Interpersonal expectancy is inherent to most leader-follower interactions, and the Pygmalion effect characterizes many manager-worker relationships. Stated simply, the theory’s central management insight is that managers get the employees they expect; managers’ can boost effectiveness by expecting more of their subordinates. This entry describes the ubiquity of several varieties of SFP, explains the psychological mechanisms through which it works, and suggests practical applications in management.

Fundamentals

Several theories have been proposed to explain how raising leader expectations boosts subordinate performance. Common to all is a causal chain that begins with the impact of the leader’s expectations on and his or her own behavior toward subordinates (i.e., his or her leadership), which arouses a motivational response among the subordinates, and culminates in subordinate performance that accords with the leader’s expectations. Self-efficacy is the key motivational mediator in this process. Self-efficacy is an individual’s belief in his or her own ability to execute the behaviors needed to perform successfully. Ample research shows that self-efficacy is a major determinant of motivation and performance. When individuals believe they have what it takes to succeed, they try harder. Conversely, those who doubt they can succeed refrain from exerting the requisite effort to apply such ability as they do have and end up underachieving. The manager-as-Pygmalion model posits that high expectations move the leader to treat followers in a manner that augments their self-efficacy, which in turn motivates the followers to exert greater effort, culminating in enhanced performance. Thus, the Pygmalion effect is a motivational phenomenon initiated by the high performance expectations held by a leader who believes in followers’ capacity for success. In a largely unconscious interpersonal process, managers with high expectations lead their followers to success by enhancing their self-efficacy, thus fulfilling their prophecy.

However, SFP is a double-edged sword: Just as high expectations boost performance, low expectations depress performance in a negative SFP dubbed the “golem effect.” Golem means dumbbell in Hebrew and Yiddish slang. Managers who expect dumbbells get dumbbells. Experiments have shown that golem effects can be mitigated by informing supervisors that subordinates with relatively low qualifications have fair potential to succeed. Another variant of SFP is the “Galatea effect.” Named after the statue that the mythical Pygmalion sculpted, this is an intrapersonal expectancy effect involving only the employee. Self-starters fulfill their own prophecy of success; believing in their own capacity to excel, they mobilize their internal motivational resources to sustain the effort needed for success without any external source (e.g., a supervisor) of high expectations. However, Galatea effects can also be golem-like. Individuals who harbor a negative self-image expect to fail; they refrain from using their abilities and thereby, tragically but unintentionally, they fulfill their own gloomy prophecy.

Self-efficacy concerns what individuals believe about their own internal resources that they can bring to bear to accomplish their goals. Beyond the motivating impact of boosting employees’ self-efficacy, research has shown the positive impact of boosting external efficacy, or “means efficacy.” Without influencing self-efficacy, simply getting workers to believe in the utility of the tools (i.e., means) at their disposal for performing the job motivates intensification of effort and produces improved performance. The means could be a computer, a weapon, a teammate, a subordinate, or a training course. Belief in the quality of the means, such as belief in one’s own ability, creates high expectations for success and triggers a fruitful SFP process.
Another variant of external efficacy refers to sources of expectations of success that are divorced from means and, instead, relate to beliefs about favorable or unfavorable external conditions. This is “circumstantial efficacy.” Examples include home-court advantage and winning the opening coin toss in sporting competitions. Circumstantial efficacy also includes one’s evaluation of a competitor’s ability or of the relative ease or difficulty of a particular sales territory. Expecting the competition to be tough, the territory to be inimical, and the weather conditions to be inimical to our kind of operations reduces our circumstantial efficacy. Expecting favorable conditions, easy competition, and sensing positive omens, our circumstantial efficacy would be high and we would perform better.

To clarify the nuances, consider a job applicant. He might ask himself, “Am I cut out for this kind of job?” This is the self-efficacy question. He might further wonder, “Will they provide me with the tools I need to succeed?” This is the means efficacy question. Finally, he might consider who else is applying for the job, how many candidates there are, how qualified they are, and how many openings there are. These would be questions regarding circumstantial efficacy. The latter concerns neither the applicant’s own ability nor the available tools; rather, they involve external factors not encompassed by self-efficacy or means efficacy that may affect his expectations for success and motivation to exert effort and, in the end, lead to success or failure. Research has shown that boosting competitors’ circumstantial efficacy by merely informing them that they had an advantage nearly doubled their likelihood of actually winning; conversely, competitors who were told that they were at a disadvantage had a seriously diminished likelihood of winning.

Like the other sources of efficacy beliefs, circumstantial efficacy affords managers opportunities for getting SFP to work for them and their subordinates rather than against them. Managers can persuade their subordinates that the competition is not so tough or that operating on someone else’s turf may be a contrary circumstance for us, but we’ve got countervailing resources that give us the advantage. “On balance, circumstances favor us.”

Finally, research has shown group-level expectancy effects in which raising a manager’s expectations for a whole group, as distinct from expectations toward particular individuals, causes that group to outperform control groups. This is especially important in team sports as well as in the teamwork that has emerged as a defining feature of modern organizations.

A fascinating but elusive aspect of interpersonal SFP involves the communication of expectations. Some of this communication is verbal and conscious, but much of it is not. Managers exhibit numerous nonverbal behaviors by which they convey their expectations, whether high or low, to their subordinates. When they expect more, they unwittingly more often nod their heads affirmatively, draw nearer physically, maintain eye contact, speak fast, and show great patience toward those they are supervising. These nonverbal behaviors “warm” the interpersonal relationship, create a climate of support, and foster success. Being subconscious, these nonverbal behaviors penetrate employees undetected “below their radar.” Thus, SFP operates beyond the awareness of both parties. This explains why managers and employees know little or nothing about it.

Other ways in which leaders favor those of whom they expect more include providing them with more input, more feedback, and more opportunities to show what they can do, while those of whom less is expected are left, neglected, “on the bench.” In short, managers invest their best leadership in subordinates whom they expect will succeed and withhold such treatment from the others. They do it unintentionally—but they do it and thereby unwittingly make their prophecies come true. Debriefing after Pygmalion experiments reveals how subconscious the process is; leaders insist that those randomly designated as having higher potential actually were more capable and that the leaders did nothing to produce the result. It often takes considerable effort to persuade participating leaders that the designations of potential had been random.

Fortunately, the high expectations that motivate enhanced performance also augment subordinate satisfaction. In every Pygmalion experiment in which satisfaction was measured, it was significantly increased. This is not surprising. High expectations and the resulting superior performance are satisfying because, by and large, employees want to succeed, and they are more satisfied when they do. Thus, all the news is good news, so far as the Pygmalion effect is concerned.
Self-Fulfilling Prophecy

Importance

Meta-analyses have confirmed that the magnitude of the Pygmalion effect in management is medium to large. The Pygmalion research is unique in being entirely based on field experimentation, lending it extraordinary internal and external validity. Experimental design confirms the causal flow from leader expectations to follower performance, and the field settings confirm its generalizability. What remains to be shown is the practical validity of the Pygmalion effect. Although abundant replications have produced the effect in various organizations, attempts to train managers to apply it have been less successful. Managers’ prior acquaintance with their subordinates appears to be a major barrier to widespread applicability. Virtually all the successful SFP replications have been among newcomers whose managers had not previously known them. Familiarity apparently crystallizes expectations because managers do not expect their subordinates to change much. Therefore, the most effective applications may be made among managers and their new subordinates.

Organizational innovations and other deviations from routine that unfreeze standard operating procedure are particularly conducive to SFP effects. Organizational development interventions or profound changes in organizational structure or function resulting from, say, mergers and acquisitions or personnel transitions open a window of opportunity. Savvy managers piggyback on these unsettling events and raise expectations to promote successful change and productive outcomes. In one classic industrial example, introducing simple job rotation and job enrichment produced significant improvements in productivity when accompanied by information that raised expectations from the new procedures, but neither innovation improved productivity when expectations were not raised. The practical upshot is clear: Change—any change—presents managers with opportunities for creating productive SFP. It is incumbent on those who want to lead individuals, teams, and organizations to success to convey high expectations whenever the opportunity presents itself. Conversely, cynical expressions of doubt about reorganizations, innovations, or developmental interventions condemn them to failure. Thus, the SFP agenda for managers is twofold: They must implant high expectations and they must counteract manifestations of contrary expectations.

A potential ethical dilemma may arise with regard to intentionally creating SFP effects. Some may question the admissibility of communicating high expectations as a management ploy in the absence of the manager’s true belief in the subordinate’s potential. Anyone who insists on strictly authentic communication and absolute truthfulness in interpersonal relations may be reluctant to convey any message that is not totally frank. However, such reluctance may amount to forfeiting a highly effective tool for enhancing subordinates’ motivation and performance. Worse still, if total openness in communication means informing subordinates of their shortcomings and expressing genuine expectations of failure, the result inevitably will be suboptimal use of the available human resources. Few managers will be so foolish as to express such doubts, but many will refrain from pronouncements that exceed their actual assessments just to produce positive SFP. Unfortunately, refraining will cost them dearly because they will not reap the boost in subordinates’ output that conveying high expectations would. The larger truth is that conveying high expectations—even when in doubt—is likely to produce better performance.

The essence of SFP in management is that managers get the employees they expect. Expect more and you will get more. However, the converse is true, too: Expect less and you will get less. All managers should strive to play a Pygmalion role by communicating high expectations regarding their subordinates’ potential, thereby fostering in their subordinates high self-efficacy and high expectations for their own success. High expectations are too important to be left to chance or whim; they should be built into all manager-worker relationships and should be part of all managerial training and development programs.

Dov Eden

See also Appraoch Inquiry Model; Authentic Leadership; Goal-Setting Theory; Leadership Practices; Positive Organizational Scholarship; Practice of Management, The; Social Cognitive Theory; Transformational Theory of Leadership
Further Readings


SENSEMAKING

Sensemaking, an idea pioneered by the social psychologist Karl Weick, involves developing retrospective images and words that rationalize what people are doing; it seeks to capture the kinds of verbalizing and writing about situated action in organizational context. In effect, it is a process that makes meaningful social action take place in an organization. The terms enactment and sensemaking are joined in organizational studies to connect individual cognitive and affective processes with organizational structures. They are powerful “bridging concepts” that enable analysts to attribute meaning and negotiated order to the domain of “organization,” and as such, they are designed to illuminate how organizations work, change, and even grow. The utility of the ideas is revealed in qualitative case studies, in statistically based research, and in the frequency with which they are cited. The approach has been applied to many kinds of organizations and has stimulated abundant research, although the primary application has been to analyze organizational change in corporations. It is perhaps less a theory than a frame of reference within which qualitative studies of organizations can be cast. The value of this for management theory is that it addresses the question of how actors feel attached to the organization and how the organization presents itself to those who work there. The entry proceeds as follows: Sensemaking is defined and the evolution of the ideas outlined; the ideas of Karl Weick are highlighted, and the importance of the ideas for organizational theory noted. Some of the critical issues that remain to be clarified in the approach end the entry.

Fundamentals

Sensemaking begins in situations in which people define, elaborate, identify, and name something. Sensemaking is transactional and interactional, collective, and shared. While individual actors struggle to create order, it is through the discourse and written texts that collective meaning arises and is sustained. Weick’s foundational concern is how people make sense and how this is done in organizational context. The base for analysis might be called a field—a taken-for-granted world of assumptions and tacit meanings that cannot be captured easily or directly. As soon as it is noticed, it is no longer out of sight and may be questioned. The taken-for-granted field contrasts with what might be called the ground or what is noticed. Ambiguity and uncertainty with the accompanying emotional arousal produces responses, interpretation, or enactment. Enactment leads to selection among cues. Retention of some cues takes place, while others fade in importance. Remembering has both an individual and
social aspect. These processes somehow become refined by feedback and amplification and are then part of generic sensemaking of the organization. The organization’s view of itself, its identity and image, are reflected in the actor’s sense of placement, or not. It is essential to understand the taken-for-granted culture of an organization to understand its resistance to change. On the other hand, change is incipient in sensemaking, because responses to new events are contrasted with memory of consequential past events. Practices then may be found wanting and adjusted. The richness of the ideas is found in the capacity to understand change as well as stability. This is a unique feature of a frame of reference since most are used to examine cross-sectional patterns of stability rather more than change. Failure, dissonance, confusion, and doubt are features of organizational life.

The sensemaking process is sometimes misunderstood. Sensemaking is not interpretation because it involves noting, noticing, picking, and plucking out cues that are then interpreted. People generate what they interpret. Sensemaking is not a metaphor: It is literally how people make sense. It is a process that is grounded in identity construction; it is retrospective, enacted in sensible environments, social, ongoing, focused on, patterned by extracted cues, and driven by plausibility. Because all deciding is fraught with ambiguity, making sense may only require that the deciding be plausible and acceptable. It does not begin with or produce “selves” and thus is not “symbolic interaction.” While drawing on phenomenological ideas and Gestalt psychology, it moves beyond perceptions and cognitions into collective social processes. Two linked patterns are individual sensemaking and organizational sensemaking. Individually oriented sensemaking parallels and is connected to organizational or “generic sensemaking,” a product of routines, tasks, and communications, especially technologies. These organizational processes sustain identity, image, or “who we are as an organization.” The environment and the organization are not two entities but one. Subject and object are linked in transactional processes. In some sense, the organization projects a meaningful environment for its members and they act to sustain it. It is a way the organization dramatizes itself to its members through their own talk. While this is an abstraction, it goes to explain how the members of the organization see the organization, its role, its history, and even its future. From a strategic or management perspective, changing organizational imagery, stated core values, and the organizational culture are linked loosely, but they are connected. They reinforce each other in feedback loops, so change is problematic. While the connections made between values, organizational segments, and units may be malleable, they are also rooted in the everyday life of the participants and contribute to their sense of connectedness.

The sensemaking approach seeks to understand both the sources of stability and change. In many respects, the problem of social science is to explain change and reactions to change; sensemaking directs attention to situations and processes that “don’t make sense,” and both indicate and produce more change. One might urge in a shorthand fashion: Watch for anomalies.

Evolution

Any theory, paradigm, or frame of reference will change as a result of new research concepts, techniques, and findings, as well as “rethinking” the frame of reference itself. Weick’s compact and persuasive book, The Social Psychology of Organization, was published in 1969 and appeared in a second edition in 1979. Here, the scheme is laid out in diagrammatic form, emphasizing loose coupling and the processes of enactment, selection, retention, and feedback. The idea of loose coupling was a way of capturing the linkages between the salient processes within the model. Sometimes the entire scheme is called a model based on loose coupling, a sensemaking paradigm, or even a method. It is certainly a process-oriented framework for organizational/management theory.

The sensemaking approach attracted much attention following the publication of the “Loose Coupling” paper in the Administrative Science Quarterly in 1976. The loose coupling essay argued that the connections between actions and thought, between variables, between organizations as intersubjective constructions as individual cognitions, and within and between segments of organization were indeterminate, erstwhile, transitory, interpreted, and in every way subtly interconnected. The essay contains some examples from schools but is primarily an imaginative speculation about the articulation of organizational action. There
is a tantalizing insubstantiality about it, in part because it captures two quite distinction processes: (a) those that link actors and organizations and (b) descriptions of how actors are linked or connected to organizational action itself. These are two problems that call out for integrated approaches. Loose coupling was used as a mode of capturing connections within and between organizational segments, but the larger paradigm was labeled as sensemaking, in which enactment was one phase of organizing.

Perhaps the most widely available examples of sensemaking analysis are found in the second part of Weick’s 2001 edited book. This contains the classic papers on ecological change—on the Mann Gulch fire, the Tenerife air controller disaster, and the playful paper on technology as an equivoque. These illustrate the richness and complexity of sensemaking through detailed case studies. These case studies illustrate the locus of change, the disturbing anomaly that leads to reflection and reassessments, and a fruitful sequence that may imply the need for organizational change. From response follows enactment, or setting the cues in context, only to lead to selection among the cues to shape some sort of “collective mind.” The collective mind is his version of how a consistent configuration of meaning is settled on, making possible repeated routines and technology and communication that sustains the necessary order. Once in place, this enables retention of the necessary to enable high-reliability practices in organizations. In a recent programmatic essay written with Kathleen Sutcliffe and David Obstfeld, Weick argues the need for the approach to be more future and action oriented, more macro, more closely tied to organizing, meshed more boldly with identity, more behaviorally defined, less sedentary, more infused with emotion and with sensegiving and persuasion.

### Importance

Sensemaking has appeal because it makes imaginative claims about how people define events and act within the constraints of organized activity. It appeals neither to attitudes and values nor to structural characterizations such as “contingency theory,” “rational choice,” or the “iron cage” to explain organizational behavior. It explores meaning making. It is an approach to management theory that begins with experienced situations and works to assemble them as a window into organizational structure. Because organizations combine order and disorder regularly, Weick, for example, uses stylized writing to suggest the kinds of experience he wants readers to recognize. The aim of his stylistic writing is to capture the appearance of complexity, whether in poetry, organizational analysis, or current affairs, and point to similar phenomena in the organizational world. This is theorizing by analogy. In some sense, the play on and with ambiguity, uncertainty, information overload, and turbulence command a rich, expressive, and often poetic language. Perhaps this “play” on words best captures sensemaking. To understand sensemaking as the basis for action one must feel it. Tables and graphic presentations do not produce much feeling. For example, Weick makes counterintuitive statements; constructs lists that, though intriguing, are not Aristotelian—that is, linear, mutually exclusive, and exhaustive; reverses the center and periphery of his concern and stretches definitions beyond easy recognition. Connotation, what is suggested, often rules denotation or precise reference. Perhaps context, what the reader brings to the reading, makes a text “work.” Think of sensemaking in yet another way. Knowing the role of sensemaking should caution against employing top-down commands, massively orchestrated management strategies, and draconian reorganizations, because they erode and may explode what ordering guides the going concern.

Although widely used, the term sensemaking is subject to considerable debate; there is no consistent pattern of use, and its spongelike quality enhances its appeal. The most accessible iconic or miniature versions of sensemaking as a process are the diagrams featured in Weick’s publications that chart the connections between ecological change, enactment, selection, retention, and remembering. At the same time, it is certainly ironic to introduce ideas that dance out of their linear frames of reference in boxes and arrows, lists, categories, and diagrams. As the ideas have become more popular, they have been used to describe statistically generated findings that cannot probe and reveal such meanings.

The matter of concern to sensemaking theorists is how organizations cope with events, incidents, and happenings that stand out: those that are ambiguous, uncertain, and turbulent—in short, in which deciding is consequential but impossible to anticipate consistently. There is a deep contradiction in
this formulation, in that inability to maintain an eye on the variety that threatens the assumed status quo ante (my terms) may lead to ritualistic responses. One might say that anomalies processing is the basis for crises in dangerous occupations, firefighting, policing, and war. These occupations need reliable routines in the face of danger, and the work can spiral into destruction and death as Weick’s work on disasters, fighting forest fires, routines on aircraft carriers, and nuclear power stations vividly illustrate. It is the uneasy combination of responses to routine events and emergency events that sustains organizational vitality. One can make the case that such organizations are classic examples of how environment and organization become one.

Consider organizations as shifting configurations of sensing and sensemaking. Once in place, imagery stabilizes action. Such imagery and rhetoric are the data used in survey research. Such research elicits rationalizations for what has been done. The shaping of these images and rhetoric is subtle. The configuration or image of an organization rests on several processes: talk, awareness of the distinction between a map (the logic) and the territory (what is done), minimal sensible structures, ideologies, organizational language, vocabularies of work or coping, and tradition and stories. These might be called pins that connect and secure meaning; they are ordering resources that hang together in some way. Given this substance, generic subjectivity, or the organization’s sense of itself, rests on arguing, expecting, committing (to the organization), and manipulation. Revealing them requires ethnographic work. The first two, arguing and expecting, seem to point to unification and overt calls for organizational team work, while the second two, committing and manipulating, are the arenas in which managers work given the canopy of the organization’s constraints. In some sense, interlocking organizational routines and tasks with interpretation (sensemaking) and communication are the yoke that pulls the organization along. Another way of stating this is that the inter-subjective sensemaking occurs and is patterned or shadowed always by the generic sensemaking that is the organization’s sense of itself.

Research in the sensemaking tradition has had enormous influence. It is certainly one of the most frequently cited organizational theories and is required reading in graduate programs in sociology, business, political science, and policy studies. They are unique for their literary and poetic style, detail, and consistent counterintuitive insights. Research by Dennis Gioia and colleagues on the impact of a “spin-off” on corporate executives richly documents the impacts of change at both the individual and the organizational level and is a detailed example of sensemaking research.

Four major questions arise about the further value of the approach. First, sensemaking captured in flowcharts outlines at a high level of abstraction a sketch of organized action in which routines, technology, and communication are said to bring together collective action. If all connections between phases are problematic, why are arrows and boxes used to represent them? Mixed evidence is provided of this in published research: snippets from media events; poems; brief commentaries, vignettes; lists; epigrams; diagrams, including boxes and arrows of causal flows of effects and occasional reflections on the argument, and tables from surveys. This stylistic mode or trope makes the claims tentative and subject to doubt, or “plausibility.” In some sense, the arguments cry out for detailed ethnographic materials of a linking sort that would hone putative connections. Given this, of course, one might argue immediately “it depends on context,” and that both loose and tight coupling can take place at the same time within any organization. Second, rationality, planning, and policy are made salient in a given organizational context and do not speak with a single “voice.” The sensemaking of individuals, segments, groups, managers, top command, or line workers can clearly differ from the generic sensemaking of the articulated rhetoric of management in regard to an organization’s view of itself. The research using this approach is devotedly managerial and articulates the paradoxes of upper management, not the workers, supervisors, or middle-level executives. Actors interpret, produce, and reproduce the patterns of risks they most fear. The “environment” is constituted—with others, for others, and by others. In organizations in which risk is both sought and a fundamental aspect of its mandate—such as firefighting, emergency medical services, policing, and other federal regulatory bodies—a rationing conservatism arises from the need to buffer demand on the organization, while innovation comes from interpreted responses to externally generated crises. All such high-risk organizations live in the shadow of death, yet routine, reliable procedures and backup systems mitigate this existential fact.
Heedful interactions, joint representations of mutual relations, and skillful responses to events within systems requiring highly reliable responses to complex and sometimes incomprehensible occurrences make for subtle forms of human sharing and cooperation. Rationality emerges from sensible, mutual responses to complex situations. Through and by mutual sense-making, reliability obtains under such circumstances. Technology, especially in high-risk organizations, is always embedded in the sensemaking of the organization and cannot stand outside of it. In short, top management does not create consensual meaning. The approach begins with the actor but seeks to explain collective organizational actions. There is an individual actor at the center of this theory: the person who notices an anomaly, makes sense of it, selects out cues and retains some, and in effect engages in the generic sensemaking of the organization. Even though cues are taken from the cues of others, the unit is the actor, not the dyadic unit, the group, or the network. This provides flexibility in the theorizing in that anomalies reinterpreted can make organizational change possible. But the boxes-and-arrows diagrams create a pride of associations, analogies, similarities, and resemblances that, although crucial in turning points, cannot be specified in such diagrams. In effect, these, too, produce apparent conflict between a list that can be seen as either metonymic (a sequence, one at a time, in some order), synecdochical (parts of a larger whole), or metaphoric (similar to or like something else). Fourth, a basic assumption in sensemaking research is that people in the course of responding must trust each other: managers, their employees; top management, their managers; and stakeholders, their management and employees. Questions of strategic management and planning hinge on trust, yet it remains a most difficult idea to measure and pin down.

Peter K. Manning

See also Behavioral Theory of the Firm; High-Reliability Organizations; Information Richness Theory; Learning Organizations; Organizational Culture Theory; Organizational Learning; Tacit Knowledge

Further Readings


SERVANT LEADERSHIP

It can easily be argued that leadership is the most critical element of management; through leadership, the climate of the organization, attitudes and motivation of employees, and strategic direction of the organization are established. Although servant leaders have emerged throughout history, servant leadership is a theory that is especially well-suited for 21st-century management. To an increasing extent, the vast majority of organizations face turbulent environments characterized by fierce global competition and severe social, political, and economic pressures. An empowered, creative, and motivated workforce is best able to handle such unstable environments. In addition to environmental turbulence, the activities of organizations are more visible and under closer scrutiny than ever before, making corporate responsibility a critical goal. Servant leadership theory, defined as leadership based on serving followers first with ethical, supportive, and empathetic behaviors, directly addresses these challenges. Whereas other leadership theories, such as transformational leadership, focus on aligning follower behavior with the goals of the organization, servant leadership has a strong focus on providing followers with the tools and support they need to reach their full potential. When followers are empowered, and supported and can trust their leaders, their engagement in required, especially discretionary, behaviors naturally follows. Thus, servant leadership is unique
among approaches to leadership in that it accentuates meeting the needs of followers.

Servant leadership is also unparalleled among leadership theories for its contention that leaders cannot be true servants unless they focus on serving others in all realms of life (work, family, community). Servant leadership is based on the premise that when leaders place serving followers above everything else, followers gain self-confidence and develop trust in the leader; they proceed on a journey toward realizing their full potential. Followers respond to support from leaders by reciprocating with behaviors that benefit the leader, coworkers, the organization, and the community in which the organization is embedded. In addition, servant leadership is alone among leadership approaches for advocating the grooming of select followers into servant leaders, a practice, which across many leaders, culminates in the creation of a servant leadership culture that promotes helping others. This entry introduces the key tenets of this emerging theory of leadership, with a focus on illustrating the potential that the theory has for enhancing knowledge of leadership as well as serving as a model for practicing managers. The measurement of servant leadership and the importance of developing the theory and empirically researching servant leadership at multiple levels of analysis are discussed. Finally, several topics for future study and development of the theory are outlined.

**Fundamentals**

Although introduced in 1970 by Robert Greenleaf and quickly attracting attention among practitioners, it was not until the 2000s that empirical research on this approach to leadership began to be published in scientific journals. Thus far, the findings of this research have supported the validity of servant leadership theory at both the individual and team levels. Specifically, the research has demonstrated that servant leadership, even when controlling the effect of popular leadership theories, such as transformational leadership and leader-member exchange, is related to important outcomes.

Critical to the commencement of empirical research on servant leadership was the development of a measure. The first scale to be developed based on rigorous scale development procedures culminated in a measure that captures seven independent dimensions that define the domain of servant leadership, with all dimensions contributing toward overall or global servant leadership:

1. **Emotional healing**—being sensitive to the personal setbacks faced by followers
2. **Creating value for the community**—serving as a role model to followers by being active in helping the community as well as encouraging followers to also provide service to the community
3. **Conceptual skills**—the task knowledge and problem-solving abilities necessary for being able to provide help to followers
4. **Empowering**—providing followers with the autonomy, decision-making influence, and self-confidence critical for enabling followers to realize their full potential
5. **Helping subordinates grow and succeed**—providing emotional support and guidance to help followers develop professionally and to accomplish personal goals
6. **Putting subordinates first**—captures the essence of servant leadership, involves prioritizing fulfillment of follower needs above one’s own needs
7. **Behaving ethically**—the demonstration of fairness, honesty, and integrity both at work and outside work, critical for gaining the trust and respect of followers

Although the initial validation of this servant leadership measure revealed that the dimensions uniquely related to outcomes, most researchers have tended to collapse the dimensions into a global servant leadership measure.

At the individual level, a positive association has been found between servant leadership and organizational commitment, commitment to the leader, self-efficacy (one’s confidence in being able to perform specific tasks well), job performance, organizational citizenship behaviors (behaviors that extend beyond what is expected based on the employment contract), creativity, and participation in activities that benefit the community. Helping to explain how servant leadership influences outcomes—such as helping citizenship behaviors, creativity, and community service behaviors—is the finding that servant leadership cultivates within followers a desire to
fulfill one’s inner potential by seeking opportunities that help develop skills and abilities. Also contributing to the positive influence of servant leadership is the follower self-confidence and trust in leaders that grows in followers because of the empathy, support, mentoring, and concern shown by servant leaders toward their followers. Despite the overall positive findings for servant leadership at the individual level, it has been found that followers differ in their desire to be led by a servant leader. Although research has not uncovered any followers who are opposed to servant leadership, a range of responses from indifference to great enthusiasm for servant leadership has been found. Moreover, followers who express indifference toward servant leadership express less positive work attitudes and engage in lower levels of job performance and organizational citizenship behaviors the more their leader engages in servant leadership behaviors.

At the team level, servant leadership has been shown to be positively related to team psychological safety, which refers to team climates in which people trust, respect, and care for one another and as a result feel safe in expressing their viewpoints and personalities. Furthermore, servant leadership relates positively to team procedural justice climate, which depicts settings in which team members perceive that the processes followed to make decisions regarding team members are fair. Servant leadership has also been shown to cultivate strong service climates, which have direct implications for customer satisfaction. Servant leadership also positively relates to team potency, defined as a team’s confidence in its ability to perform well, as well as team performance and team engagement in organizational citizenship behaviors.

Servant leadership has also been shown to moderate important relationships in team settings. Especially noteworthy is a study of five banks in which it was discovered that goal and process clarity positively related to team potency only in the presence of a servant leader. These results suggest a critical qualifying condition for the long-accepted belief that goal clarity has a beneficial effect on team potency and subsequent team performance. Specifically, the results indicated that when leaders tend not to engage in servant leadership behaviors, teams actually experience significantly higher levels of team potency and team performance when they are unclear about the goal. It appears that teams are frustrated when they know exactly what the goal is but cannot reach it because they are not getting the support that they need from the leader. However, in the presence of a servant leader, goal and process clarity showed a strong positive association with team potency and team performance.

Importance

The encouraging research results suggest that it may be advantageous for practicing managers to develop a full repertoire of servant leadership behaviors. This represents a challenge, however; it is considerably more difficult to be a servant leader than a “traditional” leader. Directing and controlling followers via formal power and authority is relatively easy compared to treating each follower as a unique individual and taking the time and effort to ensure that all followers reach their full potential. Given this formidable challenge, it becomes necessary for those in leadership roles to be patient in developing their servant leadership skills. Becoming an outstanding leader by engaging in servant leader behaviors requires devotion and practice. Just as a concert pianist or star athlete must practice incessantly build and maintain necessary skills, servant leadership similarly requires considerable practice, and maintaining the skill requires continued attention over the course of a career as a leader.

Given that scientific research on servant leadership is in its infancy, much remains to be learned about this theory of leadership, especially the antecedents of servant leadership and the specific processes through which it influences individual and team outcomes. And as with virtually all topics in management, the cross-cultural effects on servant leadership and its relationships with antecedents and outcomes also need more research.

A number of antecedents of servant leadership have been identified but remain untested empirically. Perhaps the most central antecedent is for the leader to have a desire to serve others. Personality characteristics, such as altruism, conscientiousness, and agreeableness might be explored as antecedents of servant leadership. Emotional intelligence likely plays a critical antecedent role because of the importance of (1) being aware of one’s own emotions before attempting to understand the emotions of others, (2) listening to and empathizing with followers to determine how to best serve each follower, and
(3) being able to regulate one’s emotions to enhance the chance that followers will trust and respect the leader. And from the follower side of the leader-follower relationship, a desire for servant leadership is necessary.

In terms of the process through which servant leadership affects outcomes, much needs to be explored. Servant leadership’s focus on helping followers to attain their full potential suggests the critical importance of the dyadic relationship between leader and follower. It has been proposed that servant leaders endeavor through one-on-one communication to understand the abilities, needs, desires, goals, and potential of followers. Especially with respect to individual outcomes, servant leadership most likely takes place within the dyadic relationship between leader and follower. Research over the past few decades has suggested that the relationships employees develop with their leaders are foremost in importance in understanding the way in which employees can fulfill their potential and become self-motivated. When leaders nurture self-efficacy and self-motivation, employees become more committed to organizational values and become more inclined to “go the extra mile” in serving the organization’s constituents. Much of this research argues that leaders foster these important attitudes and behaviors by forming social exchange relationships with their followers rather than relying solely on the economic incentives tied to the employment agreement or the authority vested in their positions. This suggests that examination of the interplay between leader-follower dyadic interactions as fully articulated by leader–member exchange theory and servant leadership may be fruitful. Indeed, it has been shown that servant leaders tend to form more high-quality leader–member exchange relationships with followers than leaders who do not engage in servant leadership. Research is therefore needed on the role that leader–member exchange relationship quality plays in the process through which servant leadership influences individual outcomes.

Finally, more needs to be explored with respect to the way in which servant leadership unfolds in different cultural contexts. Thus far, research has shown consistent results across the countries in which servant leadership has been studied, including Africa, mainland China, Hong Kong, and the United States. To more fully understand the cross-cultural implications of servant leadership antecedents, process, and outcomes, the role of key cultural variables—such as collectivism, power distance, and the salience of context—needs to be investigated.

In sum, servant leaders build trust by selflessly serving others first. The theme of serving others before oneself extends from the workplace to home and community. In all aspects of life, servant leaders serve others first. But perhaps most important, servant leaders instill in followers the self-confidence and desire to become servant leaders. Through the transformation of followers into servant leaders, a culture of servant leadership can be created. A culture of helping strives to assist all members of the organization and the community to realize their full human potential.

Robert C. Liden

See also Authentic Leadership; Emotional and Social Intelligence; Empowerment; Ethical Decision Making, Interactionist Model of; Fairness Theory; Leader–Member Exchange Theory; Social Exchange Theory; Transformational Theory of Leadership

Further Readings


Schaubroeck, J., Lam, S. S. K., & Peng, A. C. (2011). Cognition-based and affect-based trust as mediators of


**Seven-S Framework**

The Seven-S (7S) framework is a managerial tool for analyzing and diagnosing organizational performance and effectiveness. The framework was jointly developed by Tom Peters, Robert Waterman, Richard Pascale, and Anthony Athos in the late 1970s. Tom Peters and Robert Waterman were both management consultants at McKinsey & Company, a well-known consultancy firm whose management consulting activities were based on applied research in business and industry. The 7S framework was adopted as a main analysis tool by McKinsey; hence, the framework became known as McKinsey’s 7S framework. The framework consists of seven key organizational and managerial variables/elements categorized as either soft or hard variables. Soft variables are staff, styles, skills, and shared values, and hard variables are strategy, structure, and systems. The framework is based on the assumption that to achieve organizational effectiveness, focusing merely on the rational aspects of organizations such as structure and strategy are not enough. Organizations are complex unities, and to deal with the complexity in any organizational improvement project or program, all seven variables have to be considered simultaneously because they are interdependent and mutually reinforcing. Since the framework was introduced, it has been widely adopted by practitioners as well as by academics for multiple purposes, such as an analytical framework of organizations, as a diagnostic framework of organizational effectiveness and efficiency, as a strategic improvement tool, and so on. Hundreds of organizations have been analyzed using the framework, which remains still popular. The framework’s simplicity and memorability/recognizability are also contributing factors to its popularity. This entry reviews the contents of each variable of the framework as well as its historical background and concludes with descriptions of the relevance and importance with some managerial applications.

**Fundamentals**

As described earlier, the seven variables are considered key organizational factors that are interdependent. These factors interact, dynamically influence each other, and determine the way organizations perform. The factors’ interdependency is well illustrated in the way the model is designed.

The *shared values* variable is considered to be the interconnecting center of all other variables. Shared values were originally called *superordinate goals* of organizations. Shared values refer to the guiding concepts and meaning or the purpose of organizations’ existence that are shared among all organizational members; hence, shared values provide the foundation of the corporate culture. Normally, shared values do not include “materialistic” and measurable goals such as financial results or return on investments. Rather they refer to “spiritual”/ethical elements that can touch peoples’ hearts deeply and can provide a deeper meaning for their work.

*Structure* is defined as the main skeleton of the organizational chart. Structure is the way in which work tasks are organized and the way various organizational units are linked to each other. Organizations can be structured in a variety of ways—for example, in a hierarchical way, as a matrix, a network, centralized, decentralized, an adhocracy, a hub, a chain, and so forth.

*Strategy* refers to plans or course of action for allocating scarce resources to achieve the identified goals over time. Strategic decisions are about the long-term as well as the short-term direction of an organization to achieve competitive advantage over competitors. It is about the way to transform an organization from the present position to the desired position described by its goals. Hence, strategy affects the tactical and operational activities of an organization.

*Systems* are defined as the formalized procedures, processes, and routines to be followed within the organization. Financial systems, promotion and reward systems, recruitment systems, and information systems are some examples of the internal systems. Through these organizational systems, all the
Seven-S Framework

processes and information flows and key activities are carried out.

Staff is described in terms of personnel, the composition of the workforce within the organization. Some will say that an organization is nothing but its people and only through its people can the organization carry out activities and achieve its goals. In fact, many leading organizations emphasize the importance of the people dimension.

Skills are the distinctive capabilities possessed by individuals, groups, and the organization as a whole. The skills variable can be referred to as the core competencies of the organization, and hence, it is a strong component of competitive advantages.

Style refers to the issues of how key managers behave in achieving organizational goals, and hence, this variable is also considered to encompass the cultural style of the organization. All organizations have their own specific culture and management style. The styles/culture includes the dominant values, beliefs, norms, and traditions that are relatively enduring features that permeate organizational life.

Importance

The 7S framework was formally introduced in the June 1980 issue of Business Horizons, in an article titled “Structure Is Not Organization,” by Tom Peters, Bob Waterman, and Julien Phillips. One year later in 1981, the framework was adopted by Richard Pascale and Anthony Athos in their book The Art of Japanese Management, in which they documented how and why Japanese industry had been so successful. Using the 7S framework as a conceptual analysis tool in the 34 case studies of Japanese organizations, Pascale and Athos could identify the characteristics of successful Japanese companies. They found out that the Japanese companies excelled in combining both the “soft” and “hard” variables of the organizations, whereas Western companies generally ignored the soft dimensions and concentrated on the hard ones. The critical findings from their study were that the Japanese companies were not only good in combining soft and hard, but they were particularly excellent in the soft dimensions. The findings were in line with the main message of the initial article “Structure Is Not Organization.”

Pascale and Athos’ book was remarkable in several aspects. First, the book was one of the earliest to identify and describe the critical success factors of Japanese companies and stress the importance of the soft variables. Second, the book was the first to adopt the 7S framework as a conceptual analysis tool for those studied Japanese companies and proved the usefulness of the framework for explaining and analyzing organizational performance and effectiveness. However the 7S framework became famous worldwide not through the Pascale and Athos book, but through the book In Search of Excellence written by Peters and Waterman in 1982; the book became a best seller in the United States, with 1.2 million books sold, as well as a best seller worldwide.

In the book, Peters and Waterman used the 7S framework for studying and analyzing 62 of America’s most successful companies. Like the findings of Pascale and Athos, Peters and Waterman concluded that the key success factors of American companies were the four soft S’s of shared values, staff, style, and skills. The study revealed that American companies generally ignored these four variables and tended to focus on the three hard variables: strategy, structure, and systems. The reason was that the hard S’s are relatively easier to identify and to understand and hence also easier to deal with because they are more tangible factors compared with the four soft ones. Most companies have well-documented organizational charts and strategy formulation. However, when it comes to the soft factors such as skills, styles, or shared values, there are no such documents. These soft factors are not only of intangible character, but they are also diversified greatly among organization members. For instance, peoples’ competences are differentiated and are changing constantly. Owing to these reasons, changing organizational structure and strategy are much easier than changing skills, styles, or shared values. Those soft factors are mostly intangible and hence difficult to observe and to measure. The famous six words of Peters and Waterman, “Hard is soft. Soft is hard,” symbolically illustrate the paradoxical characteristics of the hard S and soft S factors.

The real competitive advantage of organizations lies in their capability to combine both factors, as was manifested in the successful Japanese and American companies.

By using the 7S framework as a diagnosing tool, Peters and Waterman could identify the following eight key attributes that characterized excellent
companies: (1) a bias for action; (2) close to the customer; (3) autonomy and entrepreneurship; (4) productivity through people; (5) hands-on, value driven; (6) stick to the knitting (i.e., focus on what you do best), (7) simple form, lean staff; and (8) simultaneous loose-tight properties (balance between centralized and decentralized organization). These identified eight key attributes are related to all seven organizational factors.

The 7S framework with its four soft S and three hard S factors was introduced when most Western companies had a tendency to focus only on strategy and structure. Although the framework does not include any external/environmental factors, it provided a broad and comprehensive understanding of an organization. The framework’s simplicity and ease of recognition made it popular for practitioners to use.

The recognition of, and emphasis on, the soft S factors contributed to a shift in the direction of organization and management theory toward greater awareness of organizational culture. The growth of interest in organizational culture among academics and practitioners beginning in the 1980s was largely influenced by the findings from successful Japanese and American companies where the 7S framework was used as a diagnostic tool. The power of the 7S framework was the distinction between hard and soft S factors and the recognition of the importance of the soft S. The latter would become a cornerstone for a new managerial movement called the “culture-excellence school.”

Su Mi Dahlgaard-Park

See also Balanced Scorecard; Contingency Theory; Excellence Characteristics; Meaning and Functions of Organizational Culture; Organizational Culture and Effectiveness; Organizational Development; Strategy and Structure

Further Readings


SITUATIONAL THEORY OF LEADERSHIP

The situational theory of leadership defines four styles of leadership and states that managers should use the style that is most appropriate for the level of ability and the degree of commitment of each subordinate. This is one of a number of theories describing how different styles of leadership may be appropriate in different contexts; it has a particular focus on the manager’s role in developing the abilities of his or her subordinates. The behaviors of leaders and managers toward those they supervise have been an enduring subject for research and inquiry among both academics and practitioners. There is broad agreement that certain styles of leadership are likely to be more effective than others in guiding, motivating, and developing subordinates, but leadership theorists have put forward different descriptions of these effective styles. The following sections summarize the main elements of the theory of situational leadership, explain the relationship of the theory to other theories of leadership styles, and assess the validity and usefulness of the theory in practice.

Fundamentals

The situational theory of leadership has demonstrated enduring appeal since it was first put forward by Paul Hersey and Ken Blanchard in 1968. The authors have made minor refinements to the theory since its first appearance. The following summary is based on the current version of the theory, known as Situational Leadership II. The theory proposes four styles of supervisory leadership, based on a mixture of directive behavior and supportive behaviour. The four styles are

- directing (high directing, low supporting)
- coaching (high directing, high supporting)
- supporting (low directing, high supporting)
- delegating (low directing, low supporting)

According to the theory, each style is appropriate for a particular stage of a subordinate's competence and commitment to perform a task. As the subordinate's levels of ability and commitment change, the manager's leadership style should also change, to achieve the best performance from the subordinate.
People approaching a new task for which they have enthusiasm but no knowledge or skills will benefit from a directing style of supervision, where the manager sets out in detail what is entailed and teaches and demonstrates how to undertake the task.

After some experience and some learning, subordinates may have grasped the basics of the task, but their competence level is not yet very high, and their earlier enthusiasm and confidence for the new task may have declined. They will then benefit most from a coaching style of supervisory leadership, where the manager invites contributions but retains control over the decisions (the manager is still highly directive) and is also highly supportive, providing praise and encouragement for the subordinate’s efforts.

Over time, subordinates’ skill level grows, but they may still lack confidence and at times feel insecure. They will benefit most from a supporting style of supervision, which involves encouragement, praise, and other forms of support. The manager may act as a sounding board for a subordinate’s ideas but will rarely take over decisions.

Finally, as the subordinate’s skill level and confidence grows, a delegating style is the most appropriate approach. The manager hands over responsibility for the task to a subordinate, while still providing some support, praise, and acknowledgement for that person’s achievements.

The theory of situational leadership is based on a positive view of people—a belief that they wish to learn and develop. Hence the expectation that over time, with the correct support and direction, subordinates will develop their skills and that one style of supervision should give way to the next style in the sequence. The ultimate aim is to develop empowered, autonomous subordinates, performing to a high level.

The appropriate style depends on the commitment and competence of the subordinate. The level of development of the subordinate and the appropriate leadership style can be summarized as follows:

- **Stage 1**: low competence, high commitment—a directing style
- **Stage 2**: low to some competence, low commitment—a coaching style
- **Stage 3**: moderate to high competence, variable commitment—a supporting style
- **Stage 4**: high competence, high commitment—a delegating style

It is important to note that the appropriate style of supervision is specific to a particular task rather than to particular individuals. Thus, for any one subordinate, a delegating style may be appropriate for some tasks, a supporting style for others, and so on. While the theory describes manager-subordinate relationships, the styles can also be applied in an education or training context, to describe teacher-learner interaction.

To be effective as situational leaders, managers need to (1) assess the competence and the confidence of their subordinate in relation to a specific task; (2) use each of the four leadership styles, which may entail overcoming the manager’s own preferences for one or two of the styles; and (3) discuss and explain the use of the different styles with subordinates so that they understand and accept the process.

The theory was originally designed to describe supervisory styles a manager could adopt toward an individual subordinate but was later expanded to encompass leadership of teams and of organizations. While the original focus concerns training a subordinate to carry out a specific task or tasks, the theory can also accommodate situations when decisions must be made that affect a whole team, depending on the competence and commitment of the team members.

**Relationship With Other Theories of Leadership Styles**

Several other popular theories of leadership styles that predated the situational theory of leadership also focused on the extent to which leaders are directive or participative in tackling the decisions that face them and their teams.

One view, put forward by Robert Tannenbaum and Warren H. Schmidt, was that managers could adopt any one of a spectrum of approaches to decision making, from directive at one extreme of the scale to fully participative at the other. In this theory, the most effective style would depend on the nature of the decision and the characteristics (the knowledge, skills and attitudes) of the subordinates.

Other views built on research that had identified two broad categories of supervisors’ behaviors—people-oriented behaviors and task-oriented behaviours. One popular theory, put forward by Robert R. Blake and Jane S. Mouton, was that managers could consistently apply a style of leadership that had a high regard for task achievement and also a
high regard for the needs of the subordinate. This assumed that subordinates could be self-directing, responsible, and motivated to achieve results in their work.

Paul Hersey and Ken Blanchard’s situational theory of leadership is similar, in broad outline, to the ideas of Blake and Mouton and can be traced to the same antecedents. The unique contribution of the situational theory of appropriate leadership style is to advocate different styles, depending on the changing needs of subordinates in relation to specific tasks.

Later theories of leadership styles include path-goal theory, which also suggested that leaders should adopt one of four different styles toward their subordinates, depending on the circumstances. Path-goal theory, however, focused on choosing a style that best suited a subordinate’s motivational needs rather than the person’s capability and commitment. In selecting a style, leaders were expected to take into account the factors that will motivate the subordinate, and the characteristics of the task they are undertaking.

Many of the more recent theories of leadership have been influenced by the idea of transformational leadership, which is also concerned with how to develop subordinates and with subordinate motivation and has emphasised the role of leaders in inspiring their followers. However, the idea that leaders must balance concern with task achievement with concern for supporting their staff is still very much a part of current thinking about leadership.

Importance

The situational theory of leadership has proved enduring; it is well known and is widely used in training programs in leadership and supervision. The basic elements of the model, of matching style to subordinate readiness, are easily understood, and the theory provides straightforward guidance on how to behave toward subordinates at different stages of development. The journey to competence of the individual subordinate and the changing styles of leadership that help bring about self-reliance and empowerment seem naturally complementary, and the model has an intuitive appeal. In addition, the emphasis on the role of managers in developing their subordinates is appealing and, logically, leads not only to individual growth but also to sustainability for the organization.

A number of criticisms have been made of the situational theory of leadership, however, indicating some limitations and areas where the theory is less than clear.

There have been few independent, peer-reviewed studies of the theory. Those studies that have been carried out offer only limited support for its application in practice, other than the advisability of detailed instruction when subordinates undertake new tasks, with the benefit of a reduction in this directive style as they become more experienced. There is thus little empirical support from independent studies for the accuracy or effectiveness of the situational leadership model.

A particular issue giving rise to criticism has been the description of subordinates’ levels of development—a key component in the model. The readiness of the subordinate is defined in terms of ability to carry out the task (competence) and motivation to do so (commitment). The combination of these two elements indicates which leadership style should be practiced. However, the combinations included in the model are not comprehensive. For example, at the first stage for each new task the subordinate is said to be committed but not competent (at this stage, the subordinate has been described by Blanchard as “an enthusiastic beginner”). But not all beginners are enthusiastic. Similarly, the fourth stage contemplates competent and committed subordinates, but some competent subordinates may not be committed. The theory does not explain what leadership styles should be applied in these situations. While we might expect variation in both competence and commitment from subordinates, the four combinations included in the model do not cover every common possibility, and therefore the application of the model is less straightforward than it may first appear.

A second issue is that the amount of support that a leader should provide at each phase of the model is not entirely transparent. The directing and the delegating styles are designated as “low support” styles, but the detailed explanation of the theory (and also experience of managing others) indicates that some support is needed as part of both of these styles.

Another difficulty with the theory concerns the style(s) the manager should adopt when leading a group discussion about decisions facing the whole group, when group members are at different levels of competence and commitment.
A further limitation is that the full range of the theory applies only when the manager has more capability than the subordinate and is therefore in a position to direct and coach: In modern organizations, where managers have responsibilities for specialists and knowledge workers outside their own area of expertise, this is not always the case.

Despite these limitations and areas of lack of clarity, the descriptions of the four styles provide valuable guidance on different ways in which leadership can be exercised—particularly when the detailed descriptions are studied—and this can help managers reflect on the ways in which they behave toward their staff and the areas in which they could develop their leadership skills.

George Boak

See also Contingency Theory of Leadership; Path-Goal Theory of Leadership; Transformational Theory of Leadership

Further Readings


Fundamentals

Motorola’s Six Sigma process was first developed and implemented in the 1980s for manufacturing, and from 1990 the process was adapted to the nonmanufacturing areas of the company. The content of Motorola’s “Six Steps to Six Sigma” in nonmanufacturing is as follows: (1) Identify the product you create or the service you provide to external or internal customers; (2) identify the customer for your product or service and determine what he or she considers important (your customers will tell you what they require to be satisfied; failure to meet a customer’s critical requirements is a defect); (3) identify your needs (including needs from your suppliers) to provide product or service so that it satisfies the customer; (4) define the process for doing the work (map the process); (5) mistake proof the process and eliminate wasted effort and delays; and (6) ensure continuous improvements by measuring, analyzing, and controlling the improved process (establish quality and cycle time measurements and improvement goals; the common quality metric is number of defects per unit of work).

It follows from the Six Steps to Six Sigma methodology that the aim is to improve the quality of process outputs, improving customer satisfaction and at the same time reducing waste, time, and costs. To achieve that ambitious aim, Six Sigma focuses on identifying and removing the causes of failures and defects,
reducing variation by applying a set of statistical methods and other methodologies of quality management. It follows also that the methodology is a data-driven improvement approach that step-by-step is minimizing failures and variations in a structured and systematic way. The methodology is used on well-defined projects such as a product, a service, or a process, and each Six Sigma project established has clear goals in terms of failure, cost, or time reduction.

The term Six Sigma is related to statistical modeling of variation in any process or any product and indicates a degree of process capability. When a process for example is “in statistical control,” which means that only system or common causes affect the variation, then it is known that process output with a high probability will vary within +/-3 sigma where sigma is the standard deviation of the measured output characteristic. This interval is also called the natural variation.

To reduce variation means that the natural variation of process output is reduced by reducing sigma (= the standard deviation). When improvement projects have been done systematically for a while, the natural variation of the process output may have been reduced to half of the acceptable variation as specified by design engineers or the customers. In this case, the “final goal of Six Sigma” has been achieved—a goal characterized with having the manufactured products mostly free of defects. Under those assumptions, we can expect that 99.99966% of the products will be free of defects, which corresponds to 3.4 defects per million outputs produced. In this case, the process is called “a six sigma process.”

**The Evolution and Tools of Six Sigma**

In the previous paragraphs, we introduced and discussed Motorola’s “Six Steps to Six Sigma quality”—that is, Motorola’s roadmap to achieve six sigma quality (= 3.4 defects per million). These six steps were later replaced by General Electric (GE) when Jack Welch, chairman and CEO of GE, at the annual meeting April 24, 1996, declared the Six Sigma process to be GE’s corporate strategy for improving quality and competitiveness. The change of road map follows directly from the following extract from his speech:

Motorola has defined a rigorous and proven process for improving each of the tens of millions of processes that produce the goods and services a company provides. The methodology is called the Six Sigma process and involves four simple but rigorous steps:

First, measuring every process and transaction, then analyzing each of them, then painstakingly improving them, and finally, rigorously controlling them for consistency once they have been improved.

Later on, GE developed further the sigma improvement process to follow the so-called DMAIC process—design, measure, analyze, improve, and control. But for the important areas of innovation and new product development, it was soon realized in GE and other companies that the DMAIC methodology was not suitable to use. Hence, an adapted methodology was suggested that gradually evolved into the so-called Design for Six Sigma methodology (DFSS) where the following DMADV project methodology was recommended:

- **Define** design goals based on customer needs and the company’s strategy for new product development.
- **Measure** and identify CTQs (Critical To Quality characteristics), product capabilities, production process capability, and risks.
- **Analyze** to develop and design alternatives, create a high-level design, and evaluate design capability to select the best design.
- **Design** details, optimize the design, and plan for design verification.
- **Verify** the design, set up pilot runs, implement the production process, and hand it over to the process owner(s).

Within the individual steps of DMAIC or DMADV, many well-established quality management tools are used, such as flowcharting, cause-and-effect diagram, histograms, Pareto analysis, affinity diagram, quality function deployment (QFD), design of experiments, control charts, process capability analysis, analysis of variance, and regression analysis. The tools used are a combination of simple tools for data selection/analysis and advanced statistical tools.

**Importance**

**Six Sigma Training, Education, and Implementation**

Successful implementation of Six Sigma requires leadership together with education and training in the Six Sigma principles, tools, and methods. For that
reason, clear leadership roles have been defined for people participating in the implementation process, and ambitious educational and training programs have been developed for each role as shown below.

- **Executive leadership** includes the managing director and other members of the top management team. These top managers are responsible for setting up a clear vision for Six Sigma implementation, and they also support their subordinates with the necessary resources both for education and training and for running the improvement projects.

- **Champions** have the responsibility for Six Sigma implementation across the whole organization and are nominated by the top management team from the managers at the first level under the top management level.

- **Master Black Belts**, identified by champions, act as in-house coaches on Six Sigma principles, tools and methods. Master Black Belts devote 100% of their time to Six Sigma, and they assist champions and guide Black Belts and Green Belts.

- **Black Belts** operate under Master Black Belts to apply Six Sigma methodology to specific projects, and they devote 100% of their time to Six Sigma. Black Belts primarily focus on Six Sigma project execution, whereas Champions and Master Black Belts are focusing on identifying projects/functions for Six Sigma.

- **Green Belts** are the employees who take up Six Sigma implementation along with their other job responsibilities, operating under the guidance of Black Belts.

Education and training programs vary from company to company, and several organizations and consulting companies offer education programs to qualify for the above roles. This is perhaps the most important part of Six Sigma programs.

**Impact of Six Sigma**

The success of Six Sigma became a reality in most companies that succeeded in implementing the methodology. Research articles, newspaper articles, and books on Six Sigma were published, informing the readers about the successes and the many results that successful companies could show. Here, we focus on some reported results from Motorola and GE.

According to Stephen George, the savings at Motorola from 1986 to 1990 by using the Six Steps to Six Sigma were as large as $1.5 billion in manufacturing, and they estimated in 1990 that it could save an additional $1 billion a year in nonmanufacturing. It has been reported that Motorola managed to save $5.4 billion in nonmanufacturing processes from 1990 to 1995. In 1999, GE reported savings of $2 billion attributable to Six Sigma, and in their 2001 annual report, GE claimed that the completion of over 6,000 Six Sigma projects probably had resulted in more than $3 billion in savings by conservative estimates.

The Importance and Limitations of Six Sigma

The importance of a new management methodology can be measured in various ways, and maybe the best way is to analyze if the methodology has been accepted within the management fields—within academics as well as by companies around the world—and how was it spread and accepted. Here especially, GE had an important role after Motorola.

After having experienced the first success of this methodology inside GE companies, and also from an increasing number of supplier companies, the methodology spread rapidly all over the world. The expansion of the Six Sigma methodology easily reached supplier companies because GE requested companies that wanted to do business with GE to implement the methodology.

In academia also, the topic of Six Sigma became popular because leading scholars in the field declared that the Six Sigma methodology was based on sound scientific principles. Hence, it is not surprising that journals in fields such as quality management, production management, operations management, process management, and service management suddenly were publishing a great number of research articles showing case studies where the Six Sigma methodology had been used.

The DMAIC (as well as the DMADV) process may be regarded as a short version of the quality story, which was developed in Japan in the 1960s as a standard for quality control circle presentations, but later on became an important quality improvement standard within the Japanese version of total quality control (TQC), which later evolved into the holistic management philosophy called total quality management (TQM).

Compared with Motorola’s original road map to Six Sigma quality, some explicit and important
details are missing. The most important difference is that “the customer” has not been explicitly included in GE’s DMAIC process. This may be no problem if the users regard DMAIC as one of several alternative TQM road maps building excellent companies (see the entries for Total Quality Management and Excellence Characteristics). However, several people (managers, consultants as well as academics) seem to have misunderstood what Six Sigma is, and hence they may argue that Six Sigma is the successor of TQM or a stand-alone management philosophy competing with TQM and also lean production (see entry for Lean Enterprise).

However, going through systematic analyses such as the comparisons above between GE’s DMAIC process and Motorola’s original six-step methodology, it can be concluded that Six Sigma quality as well as lean production comprise management and manufacturing philosophies, concepts and tools that have the same origin as the management philosophy called TQM—namely, Japan’s quality evolution.

By such systematic comparisons, it can also be concluded that the principles, concepts, and tools of Six Sigma quality (as well as lean production) should not be seen as alternatives to TQM but rather as a collection of concepts and tools which support the overall principles and aims of TQM. Hence it may not be surprising to observe that the latest evolution of Six Sigma has been to combine with lean production, which in the beginning of this century ended up with a lean Six Sigma road map to excellence. This combined road map is the result of an understanding that there can never be one and only one road map for excellence. Sometimes companies can best benefit by focusing on improving quality through reduction of variation (the Six Sigma approach), and later on it can be more meaningful and effective to focus on reduction of waste (the lean approach), and sometimes it may be meaningful to combine the two approaches under an overall management philosophy such as TQM and business excellence.

Su Mi Dahlgaard-Park

See also Excellence Characteristics; Kaizen and Continuous Improvement; Lean Enterprise; Quality Circles; Quality Trilogy; Total Quality Management

Further Readings

SOCIAL COGNITIVE THEORY

The failure to fully consider the psychological determinants of human behavior is often the weakest link in organizational initiatives. Social cognitive theory is founded on an agentic conception of human development, adaption, and change. To be an agent is to influence the course of events by one’s actions. People exercise their influence through different forms of agency. In personal agency exercised individually, people bring their influence to bear on what they can control directly. However, in many spheres of functioning, people do not have direct control over conditions that affect their lives. They exercise proxy agency. This requires influencing others who have the resources, knowledge, and means to act on their behalf to secure the outcomes they desire. Children work through parents to get what they want, marital partners through spouses, employees through labor unions, and the general public through their elected officials. In the corporate world, proxy agency takes the form of outsourcing services and production of products to agents elsewhere. People do not live their lives in individual autonomy. Many of the things they seek are achievable only by working together. In the exercise of collective agency, they pool their knowledge, skills, and resources and act in concert to shape their future. The distinctive
blend of individual, proxy, and collective agency varies cross-culturally. But one needs all three forms of agency to make it through the day, wherever one lives. This entry presents the causal structure on which social cognitive theory is founded, explains the origins and forms that human agency takes, and describes the mechanism through which it operates interdependently with sociostructural influences.

Fundamentals

Social cognitive theory subscribes to a causal structure grounded in triadic reciprocal causation. In this triadic codetermination, human functioning is a product of the interplay of intrapersonal influences, the behavior individuals engage in, and the environmental forces that impinge on them. Because intrapersonal influences are part of the determining conditions in this triadic interplay, people have a hand in shaping events and the course their lives take. The environment is not a monolithic force. The agentic perspective distinguishes among three types of environments—imposed, selected, and constructed. The imposed environment acts on individuals whether they like it or not. However, they have some leeway in how they construe it and react to it. For the most part, the environment is only a potentiality that does not come into being unless selected and activated. The activities and environments individuals choose influence, in large part, what they become and the course their lives take. And finally, people create environments that enable them to exercise better control of their lives. Gradations of environmental changeability require increasing levels of agentic activity.

Social cognitive theory rejects the duality that pits personal agency against social structure as a reified entity disembodied from individuals. In social cognitive theory of self and society, personal agency and social structure function interdependently. Social systems are the product of human activity. The authorized rules and practices of social systems implemented by social agents, in turn, influence human development and functioning.

Mechanisms of Agency

Among the mechanisms of human agency, none is more central or pervasive than people’s beliefs in their efficacy to influence events that affect their lives. This core belief is the foundation of human motivation, performance accomplishments, and emotional well-being. Unless people believe they can produce desired effects by their actions, they have little incentive to undertake activities or to persevere in the face of difficulties. Whatever other factors serve as guides and motivators, they are rooted in the core belief that one has the power to effect changes by one’s actions.

People’s belief in their efficacy is developed in four principal ways. The most effective means is through mastery experiences. Development of a resilient sense of efficacy requires experience in overcoming obstacles through perseverant effort. The second way of developing personal efficacy is by social modeling. Seeing people similar to oneself succeed by perseverant effort raises observers’ beliefs in their own capabilities. Social persuasion is the third way of strengthening efficacy beliefs. If people are persuaded that they have what it takes to succeed, they exert more effort that promotes success than if they harbor self-doubts and dwell on personal deficiencies when difficulties arise. People also rely on their physical and emotional states in judging their efficacy.

Self-efficacy beliefs affect the quality of human functioning through cognitive, motivational, emotional, and decisional processes. People’s beliefs in their efficacy affect whether they think optimistically or pessimistically, in self-enhancing or self-debilitating ways. Such beliefs affect people’s goals and aspirations, how well they motivate themselves and their perseverance in the face of difficulties and adversity. Self-efficacy beliefs also shape people’s outcome expectations on whether they expect their efforts to produce favorable outcomes or adverse ones. In addition, self-efficacy beliefs affect the quality of emotional life and vulnerability to stress and depression. And last, but not least, people’s beliefs in their efficacy determine the choices they make at important decisional points. A factor that influences choice behavior can profoundly affect the course lives take because it determines the social reality in which one becomes deeply embedded.

Self-efficacy beliefs operate in concert with other self-regulatory mechanisms through which agency is exercised. These mechanisms involve the temporal extension agency through forethought. The future cannot be a cause of current behavior. However,
cognitive representations of future states, whether
desired or undesired, bring the future into the pres-
ent as guides and motivators. When projected over
a long time, a forethoughtful perspective provides
direction, coherence, and meaning to one's life.

People motivate themselves and guide their
behavior by the goals and challenges they adopt.
The motivating potential of goals lies in affective
self-reactions to one's performances. Goals motivate
by enlisting self-investment in the activity rather
than directly. Once people commit themselves to
certain goals, they seek self-satisfaction from fulfill-
ing them and intensify their efforts by discontent
with substandard performances.

Most goals are ineffective. This is because they
are too general, too distant, and noncommitting.
The goals that are motivating are the ones that enlist
self-investment in the activity. They include explicit-
ness, level of challenge, and temporal proximity.
Explicit goals create motivational involvement by
specifying the type and amount of effort needed to
succeed. General goals leave uncertainty about how
much effort one needs to mobilize. There is little sat-
isfaction in easy successes. Interest and engrossment
in activities are fostered by challenging goals within
one's reach by sustained effort.

The effectiveness of goals in regulating motiva-
tion depends on how far into the future they are
projected. Long-range goals provide the vision of
a desired future. However, having a vision is not
enough. There are too many competing influences
in the present for distant futures to regulate current
behavior. Under distant goals, people put off what
needs to be done until looming deadlines spur them
into a flurry of activity. Short-term goals provide the
guides, strategies, and motivators in the here and
now to get to where one is going. Self-motivation is
best sustained by attainable subgoal challenges that
lead to the realization of valued long-term goals.

People also anticipate likely outcomes of pro-
spective actions to guide and motivate their efforts
anticipatorily. The outcome expectations take
different forms. They include the material costs and
benefits of given courses of action. Behavior is also
partly regulated by the anticipated approving and
disapproving social reactions it evokes. People are
not just reactors to external influences. The human
capacity for evaluative self-reaction is another core
feature of agency. People adopt standards and react
self-approvingly or self-disapprovingly to their
performances. The interplay among these different
outcome expectations produces different types of
adaptation.

Expected external material and social outcomes
wield significant influence when they are compatible
with self-evaluative ones. People commonly expe-
rience conflicts of outcomes when they are rewarded
socially or materially for behavior they personally
devalue. When self-evaluative consequences
outweigh the force of external rewards they have
little sway. If, however, the allure of rewards out-
weighs self-devaluation, the result can be cheerless
accommodation.

Another type of conflict of outcomes arises when
individuals are chastised for activities they value
highly. Principled dissenters and nonconformists
often find themselves in such predicaments. The
relative strength of self-approval and external cen-
sure determine whether the courses of action will be
pursued or abandoned. In some situations, external
support and reward for given activities are minimal
or lacking, so individuals have to sustain their efforts
largely through self-encouragement. For example,
innovators persevere despite repeated failures in
endeavors that provide neither rewards nor recogni-
tion for long periods, if at all during their lifetime.
To persist, innovators must be sufficiently convinced
of their efficacy and the worth of their pursuit to
self-reward their efforts.

How people perceive the structural characteristics
of their environment—the impediments it erects and
the opportunity structures it provides—also influ-
ences the course of human action. Those of low self-
efficacy are easily convinced of the futility of effort
when they come up against institutional impedi-
ments, whereas those of high self-efficacy figure out
ways to surmount them.

People are not only forethinkers and self-regu-
lators in the exercise of agency. They are also self-
examiners of their own functioning. They reflect
on their personal efficacy, the soundness of their
thoughts and actions, and the meaning of their pur-
suits and make corrective adjustments if necessary.
The metacognitive ability to reflect on oneself is the
most distinctly human core property of agency.

Evolution

When I began my career, behaviorism had a stran-
glehold on the field of psychology. I found this view
of human nature at variance with the proactive, self-regulatory, and self-reflective nature of human-kind. I devoted my efforts to further our understanding of this alternative conception of human nature.

Theory building is necessarily an incremented process. The evolution of social cognitive theory centered on clarifying the nature, development, and function of the core features of agency reviewed in this entry. The current extension of the theory focuses on the exercise of moral agency. This adds an important moral dimension to the workplace and other aspects of everyday life. Future research directions will be aimed at clarifying how individual, proxy, and collective agency operate in concert in different types of social system and cultural milieus. Extension of the theory to collective agency makes it generalizable to collectivistically oriented societies.

Importance

Modes of Self-Development and Change

An important feature of social cognitive theory is its research into the mechanisms through which competencies, attitudes, values, and styles of behavior are acquired and changed. For the most part, traditional psychological theories were formulated long before the revolutionary advances in communication technologies. They emphasized learning by direct experience via influences operating in one's immediate social and physical environment. Learning from the consequences of one's actions is a tough and laborious process. Moreover, the constraints of time, resources, and mobility impose severe limits on the situations and activities that can be directly explored for the acquisition of knowledge and competencies.

Humans have evolved an advanced capacity for learning by observation that enables them to develop their knowledge and competencies rapidly from information conveyed by modeling influences. Social modeling shortcuts trial and error. Indeed, virtually all types of behavioral, cognitive, and affective learning resulting from direct experience can be achieved vicariously by observing people's behavior and its consequences for them. In everyday life, people adopt the functional patterns of behavior they see modeled and refine them by enactive experiences to fit particular circumstances.

Some of the human learning occurs either deliberately or inadvertently by observing the behavior of others in one's social environment. However, much of the observational learning is now based on the patterns of behavior portrayed symbolically through the electronic media. The growing importance of symbolic modeling lies in its tremendous scope and multiplicative power. A single model can transmit new ways of thinking and behaving to multitudes of people in widely dispersed locales. By drawing on the modeled patterns of thought and action, observers transcend the bounds of their immediate environment.

People now spend much of their waking life in the cyberworld. The revolutionary advances in electronic technologies are transforming the nature, reach, speed, and loci of human influence. Life in the rapidly evolving cyberworld transcends time, place, distance, and national borders and alters our conceptions of them. These evolving realities present new challenges and vastly expanded opportunities for people to exercise some measure of control over how they live their lives and the social systems in which they do so.

There were a number of misconceptions about the nature and scope of modeling. One such misconception was that modeling, construed as "imitation," could produce only response mimicry. This is not the case. Exemplars usually differ in content and other details but embody the same underlying principle. To cite a simple example, the passive linguistic form may be embodied in any variety of sentences. Modeling involves abstracting the information conveyed by specific exemplars about the structure and the underlying principles governing the behavior rather than mimicking the specific exemplars. Once individuals learn the guiding principle, they can use it to generate new versions of the behavior that go beyond what they have seen or heard. They can tailor the behavior to suit changing circumstances. Thus, for example, generic managerial skills, developed through modeling and guided enactments, are tailored to improve functioning in particular organizational settings.

There was another misconception regarding the scope of modeling. Many activities involve cognitive skills on how to acquire and use information for solving problems. Critics argued that modeling cannot build cognitive skills because thought processes are covert and are not adequately reflected in modeled actions, which are the end products of the cognitive operations. Cognitive skills can be readily acquired by verbal modeling in which models
verbalize aloud their reasoning strategies as they engage in problem-solving activities. The thoughts guiding their decisions and actions are thus made observable. Cognitive modeling is more powerful in enhancing perceived self-efficacy and building innovative and other complex cognitive skills than the commonly used tutorial methods.

Still another misconception held that modeling is antithetical to creativity. Quite the contrary. Innovation can emerge through modeling. Modeled unconventional ways of thinking increase innovativeness in others. Creativity usually involves synthesizing existing knowledge into new ways of thinking and doing things. Organizations engage in a great deal of selective modeling of what is found to be effective. They adopt useful elements, improve on them, synthesize them into new forms, and tailor them for particular circumstances. Clever selective modeling can, indeed, be the mother of innovation.

**Exercise of Moral Agency**

In areas of functioning involving achievement and productivity, the personal standards that serve as the mark of adequacy are progressively altered as knowledge and skills are acquired and performances are improved. However, in many areas of social and moral conduct, the internal standards are relatively stable. People do not change from week to week in what they regard as right or wrong or as good or bad.

In the development of a moral self, individuals adopt standards of right and wrong that serve as guides and deterrents for conduct. In this self-regulatory process, people monitor their conduct and the conditions under which it occurs, judge it in relation to their moral standards and perceived circumstances, and regulate their actions by the consequences they apply to themselves. They do things that give them satisfaction and a sense of self-worth. They refrain from behaving in ways that violate their moral standards, because such conduct will bring self-condemnation. Moral agency is thus exercised through the constraint of negative self-sanctions for conduct that violates one's moral standards and the support of positive self-sanctions for conduct faithful to personal moral standards.

Adoption of moral standards does not create an immutable internal moral control system, however. The self-regulatory mechanisms governing moral conduct do not come into play unless they are activated, and there are many psychosocial mechanisms by which moral self-sanctions can be selectively disengaged from harmful practices. At the **behavior locus**, worthy ends are used to sanctify harmful means by social, economic, and moral justification, by exonerative comparison that renders the practices benign or even righteous, and by sanitizing any convoluted language that disguises what is being done. At the **agency locus**, people obscure personal responsibility by displacement and diffusion of responsibility. This absolves them of accountability for the harm they cause. At the **outcomes locus**, perpetrators minimize, distort, or dispute the injurious effects of their actions. At the **victim locus**, perpetrators dehumanize and blame recipients for bringing the maltreatment on themselves. Through selective moral disengagement, good people do harmful things without any loss of self-regard. These psychosocial mechanisms operate at both the individual and organizational levels.

**Agentic Management of Fortuity**

There is much that people do designedly to exercise some control over their personal development and life circumstances. But there is a lot of fortuity in the courses lives take. Indeed, some of the most important determinants of life paths occur through the most trivial of circumstances. People are often inaugurated into new life trajectories, marital partnerships, and occupational careers through fortuitous circumstances.

Fortuitous events are unintended intersects of persons unfamiliar with each other. The separate paths have their own determinants, but they are causally unconnected until their intersection. At that point, the encounter creates a unique confluence of influences. Most fortuitous events leave people untouched, others have some lasting effects, and still others branch people into new trajectories of life. Fortuitous occurrences may be unforeseeable, but having occurred, the conditions they create operate as contributing factors in causal processes in the same way as do prearranged ones.

Fortuity does not mean uncontrollability of its effects. People can bring some influence to bear on the fortuitous character of life. They can make chance happen by pursuing an active life that increases the number and type of fortuitous encounters they will experience. Chance favors the inquisitive and venturesome, who go places, do things, and explore new ideas and activities. People
Social Construction Theory

The premise of social construction theory is that many aspects of our world that are taken for granted as objective facts of life have actually arisen from patterns of social interaction that have become institutionalized. The purpose of the theory is to recognize and emphasize the power of these social facts in enabling and constraining our day-to-day lives. A pervasive example is the convention of time of day. Our system of time zones radiating from Greenwich Mean Time is a socially constructed system. On a daily basis, however, we take for granted that when the New York Stock Exchange bell sounds at 9:30 a.m. Eastern Standard Time in the United States, it is 9:30 a.m. everywhere in the EST zone. We know that the London Stock Exchange has already been open for six and a half hours, and the Tokyo Stock Exchange is already closed. Imagine the vast substantive impact of these social facts. Their socially constructed nature is salient to us only when something changes—for instance when the United States changes to daylight savings time during summer months. The theory is relevant to management because organizations are social institutions and behavior in and among them is governed by institutionalized patterns of behavior. Thus, it can be applied to any aspect of management, from human resource management to competitive strategy to global markets. As we will see in this entry, the concepts from social construction theory first influenced the management field through the work of organizational sociologists, who observed that organizational structures and routines often persisted even when they were no longer optimal given technological and competitive conditions. The following section of this entry describes the fundamental characteristics of social construction theory. The next section provides background on the history and development of the theory, and the final section assesses the importance of the theory to management.

Fundamentals

The core element of social construction theory is social knowledge, or what has been referred to as “knowledge in everyday life.” What is meant by this is the knowledge about how to be a member of a social group and society. Although social construction

Albert Bandura

See also Corporate Social Responsibility; Empowerment; Entrepreneurial Effectuation; Expectancy Theory; Goal-Setting Theory; Innovation Diffusion; Moral Reasoning Maturity; Self-Determination Theory; Social Network Theory

Further Readings

Social Construction Theory

Theorists don’t often use the terms *culture* or *cultural knowledge*, the idea is much the same. What is the appropriate way to interact with other members of the social group? How do we organize our day? How do we organize our work?

Socially constructed knowledge emerges through interactions among members of the social group. This is most obvious in the transmission of social knowledge from experts (adults) to novices (children), but it also occurs in many day-to-day interactions and activities. Thus, *interaction* is a key element of social construction. Interaction among people leads to an *intersubjective* set of beliefs and behaviors about what is true and appropriate. Appropriate ways of doing things in a social group become *habitual* over time. That is, behaviors and interactions take on a script-like character. Appropriate ways of organizing activities, such as work, in the social group become *reified* over time. That is, they take on the character of objective reality. They also become *legitimate*; that is, not only are practices taken as fact but also as correct, valid, and desirable.

The key assumptions on which social construction theory rests are as follows: First, knowledge is *socially distributed* among members of a family, community, organization, or society. This moves the concept of knowledge from something that exists within our minds to something that is created, understood, and changed through social interaction. The foundation of socially distributed knowledge is the objectification of subjective processes and meanings by which the intersubjective commonsense world is constructed. In other words, interpretation and meaning are created through webs of social interaction. Second, knowledge and its meaning are negotiated and constructed by actors who interact within a community with which they identify and who share the practices of the community. *Negotiation of meaning* in this context includes both the meaning of negotiation as in “negotiating a price” (competing interpretations) and “negotiating a sharp curve” (steering and staying on track). Third, because interaction is more frequent within social groups, there is higher agreement about the meaning of knowledge and practice within a community than across communities. Thus, socially constructed knowledge about which activities are appropriate and how to perform them has *boundaries* which coincide with the boundaries of a particular social group. Shared histories of learning within communities create boundaries between those who participate in a community and those who do not.

Fourth, as members of a social group perform the practices of their community, they engage in *mutual engagement and learning* and develop a shared repertoire of knowledge and activities. This shared repertoire includes terminology, stories, tools, and symbols. It reflects a unique and contextualized history of learning, and yet remains inherently ambiguous, because meaning in the community is continuously negotiated and renegotiated through interaction. Fifth, for periods of time, however, socially constructed knowledge and meaning in a community becomes *reified*; that is, abstract concepts are treated as substantially existing, real, and true, like a concrete material object. Examples include concepts such as “the economy” or “the rule of law” or “democracy.” From the point of view of management, concepts such as reputation and market capitalization are socially constructed and yet have substantial material implications.

Of course, not all knowledge is socially constructed. With the exception of solipsism, social construction theory does not deny the existence of a physical reality—the Earth does spin on its axis resulting in what we experience as the approximately 24-hour day, with alternating periods of light and dark. Societies have not always possessed this objective knowledge and have at various times had developed socially constructed explanations for the pattern of light and dark. Though we now understand the objective reality that causes this pattern, we still create socially constructed institutions to help us organize our activities within and among social groups, such as the time zones described initially. Thus, the boundary conditions of social construction theory are considered to be the realm of the social rather than physical and mathematical fact. Social construction theory is closely related to the symbolic interactionism, ethnomethodology, sociology of knowledge, institutional theory, structuration theory, the social construction of technological systems, and perspectives on enactment and sensemaking.

**Evolution**

The roots of the theory come from a field known as the sociology of knowledge. The sociology of knowledge was first raised by philosophers concerned
Social Construction Theory

about both the epistemology (sources, nature, and limits of knowledge) and ontology (nature of being) of knowledge, or what are considered to be facts, causal relationships, and how we know such things. The term was first coined by German philosopher Max Scheler in the 1920s, but the germ of the ideas as we understand them today can be attributed to Karl Mannheim’s work from the 1930s through the 1950s. Mannheim’s writings helped bridge the philosophical question of “how do we know what we know?” to the sociological question of how social interaction and social context create all knowledge that is not physically or mathematically determined. Even Max Weber, the father of rational bureaucracy, alluded to the importance of subjective meaning in guiding action. American sociologists Talcott Parsons and Robert Merton brought the ideas fully into the sociology literature in the 1950s. Still, the focus in all these writings was primarily on the formation of ideology—that is how do we come to believe what we do?

It was not until sociologists Peter Berger and Thomas Luckmann’s book, The Social Construction of Reality: A Treatise in the Sociology of Knowledge, in 1966 that a treatment of the sociology of knowledge moved decidedly away from an emphasis on philosophy and ideology to a concern with all knowledge that is used everyday life, and how social interaction creates much of what we experience as objective reality. This work drew from phenomenological sociology—both ethnomethodology (Harold Garfinkel) and symbolic interactionism (George Herbert Mead)—to focus on how everyday interactions create what we take for granted as knowledge of social facts and how to act in the context of these facts. Of particular importance are the concepts of objectification and signification.

Objectification refers to the way in which an object takes on a subjective meaning and intention. It is useful to consider the way in which knowledge is embedded in objects. Tools, such as a hammer, embody knowledge of leverage and force and material. They also embody an action or intention—to strike an object—perhaps a nail into a wall—in order to hang a picture. When we see a hammer, we understand its purpose. Taken out of its historical and cultural context, however, a hammer may not have the same meaning or be understandable at all. A wonderful illustration of this is in the movie The Gods Must Be Crazy in which an empty Coca-Cola bottle is construed by the Bushmen who discover it as a gift from the gods. Having no conception of its original purpose as a container for a sugary soft drink, they discover that it can be used for all manner of useful functions, from flattening snake skin to a child’s toy.

Signification is a crucial example of objectification. Language is the most obvious and sophisticated form of signification, in which signs “stand for” intention and meaning. Language is also a good example of the basic assumptions of social construction, as described above. Language is socially distributed, meaning is negotiated and evolves through social interaction, and shared histories of learning create boundaries of meaning between languages and the communities in which they have evolved. Mutual engagement and learning create the shared repertoire of terminology, stories, and symbols that characterize social groups and their language.

Berger and Luckmann also elaborated on the way in which societies and their institutions are socially constructed. They defined the term institutionalization as “the reciprocal typification of habitualized actions by types of actors” (p. 54). To understand what they meant by this, let us examine an example. When I am staying at a hotel and call the front desk to ask for extra towels, both the clerk and I mutually understand that I am a guest and he is a clerk. Guests are types of actors in a hotel who request things. Clerks are types of actors who take requests and fulfill them. Neither of us is surprised by the request and response. If I call again tomorrow, the interaction will be much the same. Thus, in institutionalized situations, certain types of actors will expect and be expected to behave in certain ways in the course of their interactions (reciprocal typification), and these behaviors are repeated across numerous interactions (habitual). Through this process, behaviors become predictable and coordination of behavior becomes possible.

In 1977, an article by John Meyer and Brian Rowan in the American Journal of Sociology moved the ideas of social construction squarely into the domain of organizations and management. They argued that as organizational routines and structures become institutionalized, they become taken for granted as legitimate and appropriate; we then experience these features as objective facts about the ways things are in organizations. Indeed, they argue that the pervasiveness of organizations as a means of
coordinating economic activity can be attributed not only to reasons of effectiveness and efficiency but to the socially constructed status of organizations as the appropriate and legitimate way of organizing economic activity. This article laid the foundation for what is called institutional theory, one of the most important and pervasive theories in the management field. The persistence and reproduction of legitimate ways of organizing has been explored extensively by scholars of institutional theory.

In 1979, the work of social psychologist Karl Weick applied ideas from social construction to his writings on the social psychology of organizing. Key to his argument is the notion of enactment, which suggests that the world that we experience and react to is not independent of our own actions. For instance, managers of organizations, by acting in a way that is consistent with their beliefs, actually help create a reality that is consistent with these beliefs. Weick elaborated on two points raised by Berger and Luckmann: Our experience of reality becomes structured through social interaction, but individuals differ in their interpretations of this reality. Weick argued that interpretations differ because individuals actually experience different realities. They do so because individuals enact their reality; that is, phenomena being perceived are also created by the perceiver. Weick’s work had a tremendous influence on the management field, by emphasizing that managers were not just interpreting their organizational environments and adapting to them, but rather, through their own actions, they were actually creating the environments to which they needed to adapt. This notion spurred the development of several new areas of management research, including managerial sensemaking and sensegiving; the construction of managerial and organizational identity, reputation, and legitimacy; the social construction of technology; and the construction of competitive communities, markets, and organizational fields. The section below elaborates on these schools of management research and highlights the importance of this research to managers and managerial practice.

Importance

The application of social construction to theories of technologies, organizations, and institutions helps move these ideas beyond philosophy to sociology and eventually to management theory. Social construction theory has influenced management scholars and educators through its contributions to at least four key schools of thought: institutional theory, the social psychology of organizing, the social construction of competitive environments, and the social construction of technology. Because of the highly philosophical and conceptual nature of the theory, it is difficult to study empirically. However, each of the four schools of thought noted above do have solid support that lends credibly to their predictions. The theory has influenced managers primarily through the recognition of the way institutionalized practices both enable and constrain their activities and how their own organizations influence features of the environment to which they are trying to adapt.

Institutional theory developed first within the field of organizational sociology, with the work of John Meyer and Brian Rowan noted above, and later Paul J. DiMaggio and Walter W. Powell. Institutional theory developed into one of the most influential theories in management, focused primarily on the question, Why are organizations so similar in the way they organize work? At its core, institutional theory addresses this question by investigating why certain ways of organizing are considered legitimate, with the roots of legitimacy coming from socially constructed beliefs and practices. Numerous scholars adopted these ideas from organizational sociology and applied them to important managerial questions, such as how to maintain legitimacy in the eyes of stakeholders and how to adapt strategically while operating within the constraints of established institutionalized environments. More recently, management scholars have pushed institutional theory to consider how institutionalized practices emerge in the first place. Researchers in this area have explored the emergence of new institutional fields and industries and have coined the term institutional entrepreneurs to refer to those actors who help establish the socially constructed practices in a new field. A related area of research explores how leaders and organizations can attract resources by recognizing and managing the social construction of reputation, legitimacy, and assessments of value.

A number of researchers have drawn on the social psychology of organizing and explored the sensemaking and sensegiving activities of managers within organizations. This area of work explores how leaders and managers influence organizational
decisions and actions, from the day to day to its strategic direction, through their ongoing interactions with others in the organization.

Also drawing closely on Weick’s work on enactment, another group of researchers has explored the question of how managers’ beliefs influence their competitive environment and developed a school of thought referred to as the social construction of competition. This body of research explores how behavior among competing organizations becomes institutionalized, much like the way institutional theory explored how ways of organizing become legitimate and taken for granted. This research suggests that even competitive behavior in the marketplace is, in part, socially constructed.

In 1987, The Social Construction of Technological Systems by Wiebe Bijker, Thomas P. Hughes, and Trevor Pinch integrated the ideas from the sociology of scientific knowledge with studies of technology and demonstrated that even knowledge that we take as solid, physical, objective certainty, such as physical technology, has, in fact, been socially constructed as legitimate and appropriate. A classic example of the persistence of a technological system beyond the effectiveness of its technological function is the QWERTY keyboard, which is the standard layout of the letter keys on the keyboard of typewriters and computers. It was adopted as the standard layout for manual typewriters in order to prevent the mechanical arms of the typewriter from sticking together. The layout has persisted, however, long after the demise of the manual typewriter. In the management field, researchers studying the social construction of technology have brought the concepts of social construction to the adoption and use of technology within and among organizations. This area has gained prominence as the role of information technology has become both essential and central to the functioning of organizations.

Even though social construction theory is derived from century-old philosophical explorations of the nature of knowledge, it is still relevant to the challenges faced by managers today. To manage the challenges and opportunities from globalization and technological change to shifting economic and political systems, managers must be adept at recognizing and influencing the way in which social interaction within and among organizations shapes knowledge, practices, and structures of doing business.

See also Actor-Network Theory; Adaptive Structuration Theory; Institutional Theory; Management Symbolism and Symbolic Action; Narrative (Story) Theory; Sensemaking; Structuration Theory

Further Readings

Social Entrepreneurship

Social entrepreneurship, broadly defined, is value creation in which opportunities are explored and exploited to meet social needs or enact social change in new ways. This general definition can be further broken down for greater clarity. Value creation refers to benefits generated when resources are combined to create new means, new ends, or new means-ends combinations. Social entrepreneurship generates rents that are invested back into society rather than being appropriated solely by the entrepreneur. It goes beyond economic value to place relatively greater emphasis on additional forms of value
Social Entrepreneurship

creation. Economic value creation is important for the long-term viability of the enterprise, yet it is a mission that focuses on social and/or environmental value creation that is the enterprise’s reason for existence. Opportunity exploration and exploitation have reference to seeking out, and taking advantage of, situations in which new products, services, processes, organization methods, or raw materials may generate entrepreneurial rents, which situations are not generally known by all parties at all times. Social needs are human necessities such as food, shelter, or employment required for life or to improve its quality. These necessities are sometimes left unsatisfied by traditional market mechanisms for a segment of a population, which is then targeted by social entrepreneurs so that those social needs can be satisfied. Like social needs, social change is change targeted at rectifying some social injustice that traditional market mechanisms do not address. The final phrase, in new ways, refers to the innovativeness, proactiveness, and risk taking in social entrepreneurship. In this entry, the fundamentals of social entrepreneurship are presented, including its content, how content elements are related, rationale, domain, and context with other management theories. This is followed by the importance of social entrepreneurship to both management research and practice. The entry concludes with a cross-reference to other entries in the encyclopedia and a list of key suggested readings that provides seminal and contemporary articles in social entrepreneurship theory and research.

Fundamentals

Social entrepreneurs seek to alter the landscape in which social value is created and deployed. Social entrepreneurship may occur through the creation of new organizations or within existing organizations. While early studies modeled social entrepreneurship as an outcome, scholars tend to view it more recently as a process. Social entrepreneurship is generally thought to be a subset of traditional entrepreneurship, yet research in social entrepreneurship has not been limited to entrepreneurship theories. Research in this stream has drawn from theories commonly used in management and public policy research, such as agency theory, Austrian economics, discourse theory, institutional theory, organizational identity theory, the resource-based view, social network theory, social capital theory, and stakeholder theory. One outcome of this diversity is that neither a widely accepted definition nor one theory of social entrepreneurship has emerged.

The key factors in social entrepreneurship may be divided into antecedents and outcomes. Antecedents that seek to predict or explain social entrepreneurship include social motivation and mission, opportunity identification, access to resources and funding, multiple stakeholders, and the presence of a certain social ill or market failure. Outcomes of social entrepreneurship in the literature revolve around social value creation, sustainability of solutions, and satisfying multiple stakeholders. Alternate models of social entrepreneurship borrow from other theoretical perspectives and frameworks, such as entrepreneurial orientation or the people-deal-context-opportunity model. While these models generally portray the positive potential or impact of social entrepreneurship, scholars have given much less attention to its potentially negative side effects.

Process models of entrepreneurship suggest that the antecedents to the entrepreneurial process result in certain outcomes. Thus, a venture’s social motivation and mission, opportunities identified by the social entrepreneur, resource availability, salient stakeholders, and the type of social ill being addressed all affect the way in which the venture goes about entrepreneurship, for better or for worse. For example, greater resource availability may allow for greater risk taking, and having a greater number of salient stakeholders could improve proactiveness as the venture draws from their knowledge and experience to act on opportunities. Likewise, the entrepreneurial process unique to social entrepreneurship may result in certain outcomes related to social value creation, sustainability, and satisfying stakeholders. Innovative social ventures should be more likely to arrive at lasting solutions to social problems, while excessive risk taking may jeopardize long-term venture viability.

Social entrepreneurship borrows from other underlying logics to explain these relationships. It draws from the strategic choice perspective in assuming that social entrepreneurs can identify and take advantage of opportunities that others do not, while presently leaving broader ecological questions of industry attractiveness and growth, maturity, and decline relatively unaddressed. It is based on the idea that a variety of stakeholders play a vital role in the venture meeting its mission because of relationships
that transcend those based solely on economics. Many of the ills plaguing society are not remedied by traditional market mechanisms in which transactions between a buyer and seller maximize profits. Rather, social entrepreneurship adjusts the market mechanism such that some third party in society receives a portion of the value created. In this way, a social venture provides economic, social, and/or environmental returns.

The theoretical boundaries of who, when, and where in social entrepreneurship are still being defined. Initially viewed in light of public policy in the 1990s, social entrepreneurship has grown to encompass nonprofit contexts and presently includes for-profit organizations as well. Contextual boundaries have thus expanded, settling on a distinctly social mission or purpose regardless of organizational form. At the individual level, the social innovation school is interested in how social entrepreneurs enact social change through processes such as bricolage. At higher levels of analysis, the U.S. social enterprise school examines revenue generation by nonprofits, while the European social enterprise school is interested in the broader idea of a social economy. One critical contextual factor that is presently overlooked is the temporal nature of social entrepreneurship, or how it is expected to change over time.

As indicated in the cross-references, social entrepreneurship has clear connections to a variety of other management theories and perspectives. The emphasis on economic, social, and/or environmental value creation has clear reference to the triple bottom line, and the frequent inclusion of both market and nonmarket stakeholders as vital factors demonstrate a link with stakeholder theory. The importance of “scaling”—or rapid growth of social impact—in social entrepreneurship research is an indication of its relationship with innovation diffusion theory. Finally, the idea that social entrepreneurs are interested in multiple forms of value creation suggests an association with stewardship theory, in which the entrepreneur as an agent acts in the welfare of the organization (and society) as a whole rather than out of opportunism.

Importance

Research in social entrepreneurship is still in a nascent state. Accordingly, there have been a multitude of studies that improve scholarly understanding and explanation of the phenomenon. The majority of studies from 1991 to 2009 have relied on case-based research, which provides thick description and insight into processes and motivations of entrepreneurs and ventures. What has been less frequent are studies that predict relationships, although the large number of recent special issues in leading entrepreneurship journals on the topic are one indication that this trend is changing. Few empirical studies of social entrepreneurship have been published, in part because of the difficulty in identifying these individuals and their ventures. However, increases in the number of foundations and other grant-making entities that support social entrepreneurs, coupled with websites that compare their ventures, are beginning to improve scholarly access to much-needed data.

The influence of social entrepreneurship on management scholars and educators continues to grow. Again, the large number of journal special issues dedicated the phenomenon, as well as the rapid growth in the number of articles in the literature, demonstrates its increasing popularity in academe. Scholars now have a theory-based rationale to explain the emergence of new types of organizations that have new purposes and missions, which did not fit in the traditional profit-maximizing model. The lines between nonprofit and for-profit organizations, and their competitive boundaries, are beginning to blur and shift. Nonprofits increasingly generate earned-income activities and create for-profit subsidiaries, while for-profits continue to compete with nonprofits for public services contracts. Social entrepreneurship provides a rationale that improves our understanding of these changes. Educators are likewise responding to the increased emphasis on social entrepreneurship. Many universities now offer courses at both the undergraduate and graduate levels, with some even offering degrees in or emphases on social entrepreneurship. Whereas in the past, these courses have had to rely on cases, guest speakers, and books from the popular press, a number of textbook options are now available to educators. Fortunately, these texts provide different perspectives on social entrepreneurship, giving educators the option to use the text that best fits their needs.

One of the benefits of research in this area is its clear applicability to management practice. Scholars of social entrepreneurship have been disseminating their findings through books and education
aimed at making managers in the social sector more entrepreneurial and students of entrepreneurship more attuned to social issues and opportunities. Indeed, many social entrepreneurship books are filled with examples and practical tools for analysis, decision making, and implementation within the context of social ventures. Universities, such as New York University's Stern School of Business and the Harvard Business School/Kennedy School of Government, sponsor workshops and conferences on social entrepreneurship that target practitioners. These workshops integrate key research findings with practitioner-generated best practices to improve outcomes. Practitioners and researchers are able to collaborate during these types of conferences to generate project ideas that have real meaning.

Two popular examples of social entrepreneurship are presented in works by Muhammad Yunus and C. K. Prahalad (see Further Readings). Yunus, winner of the Nobel Peace Prize, started the microcredit Grameen Bank in his native Bangladesh in response to traditional banks refusing to make loans to the poor. Yunus found that local basket weavers were not the credit risks that others assumed them to be. Prahalad has written about Aravind Eye Care in India, founded by Dr. Govindappa Venkataswamy. Aravind uses principles such as specialization of labor and 24-hour-a-day service to provide ophthalmic surgeries. Aravind’s success allows it to provide free surgeries to the poor while still earning a profit. The low default rates on the loans from Grameen Bank and the high success rates and throughput of Aravind Eye Care are examples of social entrepreneurship. They directly address social ills through innovative, long-term sustainable business models that have dramatically improved quality of life for others who are traditionally excluded from market transactions. Both of these organizations are now applying their business models to other complementary products and services to broaden their impact.

There is an increasing emphasis on and awareness of social issues in Generation Y students now in universities and entering the workforce. Social entrepreneurship has grown with this awareness and is providing undergraduate and graduate business students with new perspectives on value creation. For instance, Brigham Young’s Marriott School of Management and Texas Christian’s Neeley School of Business sponsor social venture competitions that mirror similar competitions for traditional entrepreneurship students. Social entrepreneurship is thus well-positioned to provide frameworks for future managers to create and maintain lasting social change.

Todd W. Moss

See also Corporate Social Responsibility; Entrepreneurial Opportunities; Entrepreneurial Orientation; Innovation Diffusion; Stakeholder Theory; Stewardship Theory; Triple Bottom Line

Further Readings


Social Exchange Theory

Social exchange theory is an old and venerable framework for understanding human social behavior. For decades, this theory has been explored by anthropologists, sociologists, and social psychologists, as well
Social Exchange Theory

as being extensively applied to management theory. This long tradition of social exchange—buttressed by the wide-ranging disciplinary perspectives of interested scholars—has added richness to our understanding of interpersonal transactions. However, this diversity has also come with a cost. Social exchange theory has evolved considerably over time. It is no longer a single “theory” but rather a family of conceptual models that are not always closely aligned. Commensurate with this historical evolution, contemporary social exchange theory has branched considerably, with researchers exploring human interactions from a number of distinct perspectives. With this in mind, our purpose here is to provide a broad overview of social exchange for the general reader. The entry continues with a brief review of social exchange theory’s defining attributes. We then turn to a historical review, which discusses the evolution of this conceptual framework. Finally, the entry closes with a consideration of social exchange theory’s impact on management research.

Fundamentals

Four major themes of social exchange theory remain the subject of much analysis and discussion: interdependent interactions, self-interest, rules of exchange, and the formation of interpersonal relationships.

Interdependent Interactions

During the modern period, models of social exchange were concerned with individual choices in interpersonal situations, with special attention to mutual fate dependence among social actors. For example, in their well-known interdependence theory, Harold Kelley and John Thibaut illustrated each party’s available options and potential consequences with an “outcome matrix.” Outcome matrices illustrate how closely the consequences for each party depend on the choices made by the other. The power that one holds in a relationship can be limited by another person’s resource control. Conversely, power can be enhanced through the availability of alternative options.

This quality of outcome interdependence between parties can be accounted for in terms of four attributes. The first is the degree of dependence. To the extent that each party’s outcomes are controlled by the other, then degree of dependence is high. When such control is lacking, then degree of dependence is low. The second property is the mutuality of dependence. This concerns whether individuals need to cooperate to the same degree to achieve their desired outcomes. The third is the correspondence of outcomes. Roughly, high correspondence implies that the two parties share interests in common, and low correspondence suggests that this is not the case. The fourth property is the basis for dependence. This involves whether control for outcomes is shared rather than dominated by a single party. By analyzing the pattern among these four attributes, researchers can predict choices made in social situations, such as the potential for conflict or for cooperation.

Independence theory and its heirs continue to inspire research, though the original theory has been somewhat superseded by more recent extensions and new innovations, such as Caryl Rusbult’s investment model. Regardless of the specific theoretical framework that one employs, this tradition of research has proven highly influential because these models are reasonably comprehensive yet conceptually flexible. For example, the interactive decision-making approach has been applied to romantic relationships as well as to bilateral negotiations. The breadth of this generalizability provides a practical illustration of the importance of social exchange in everyday life.

Self-Interest

In 1958, George Homans published an influential article in the American Journal of Sociology, which was followed in 1961 with a book-length explication of his ideas. Consistent with the economic thinking of his day, Homans was primarily concerned with individual exchanges that were transacted in order to achieve self-interested goals. Subsequent to Homans, this notion was not uncommon within social exchange theory and was adopted by other scholars. Still, universal self-interest remained controversial. Interdependence theory, for one, did not take a strong position as to the underlying motives that drive exchange interactions and was open to the possibility that choices could be made for altruistic reasons. More recent thinking has also taken a broader view of human motivation.

Reciprocity and Other Rules of Exchange

Roughly speaking, reciprocity is the tendency of people to respond to a beneficial action by returning a benefit and to a harmful action by returning a harm. In this way, positive and negative outcomes
would approximately balance. A misalignment would be viewed as an injustice. Reciprocity, though borrowed from earlier social exchange traditions, continues to be actively investigated. For example, Linda D. Molm and her colleagues have found that exchange relationships that develop from reciprocal exchanges, as opposed to relationships negotiated in advance, tend to show less inequality, fewer power abuses, greater trust, and higher commitment. Reciprocity seems to encourage greater social harmony.

Though reciprocity remains a critical concept, other rules of social exchange have also emerged. For example, Meeker proposes six: (1) reciprocity, which we have already discussed; (2) rationality, an exchange rule that suggests an exchange partner should maximize his or her own benefits (i.e., instrumental logic); (3) altruism, an exchange rule that stipulates individuals seek to benefit the other exchange partner, even if it comes at personal cost; (4) group gain, an exchange rule that suggests individuals seek to maximize benefits for a community of individuals who hold common interests; (5) status consistency or rank equilibration, an exchange rule that suggests deference be given to individuals of prestige or formal rank; and (6) competition, an exchange rule suggesting that individuals seek the maximum possible difference between their benefits and those assigned to other people.

Without gainsaying the prevalence of reciprocity in human interaction, the inclusion of additional exchange rules provides a much richer description of social exchanges.

**Interpersonal Relationships**

In 1964, the sociologist Peter Blau published his influential volume, *Exchange and Power in Social Life*. Drawing explicitly from Bronislaw Malinowski’s earlier work, Blau asserted that there were at least two types of transactions—economic exchanges and social exchanges. Economic exchanges are quid pro quo, expect quick repayment, and characterized by individual self-interest. Social exchanges are more open-ended and longer term. To Blau’s thinking, the most important distinction between these two sorts of exchanges is the issue of obligations. Economic exchanges tend to specify the terms and form of repayment, whereas social exchanges tend not to do so. Likewise, negotiation of repayment is more allowable in economic exchanges, less so in social transactions. Blau’s observations about economic and social exchanges were often interpreted in relational terms. That is, researchers distinguished social exchange relationships, which are relatively close and longer-term, from economic exchange relationships, which are relatively less committed. We shall return to this point in the next section when we take up research in organizational behavior.

Given this new emphasis, scholars began to explore the formation of social exchange relationships. A good example of this can be found in a series of investigations by Edward Lawler and Jeongkoo Yoon. In their experimental studies, Lawler and Yoon found that successful agreements produced positive affect. This affect, in turn, enhanced the relationship between the two parties. These benefits were most likely to accrue when the individual shared responsibility for both the exchange agreement and the resulting outcomes.

**Social Exchange Theory and Interpersonal Relationships**

During the 1980s and early 1990s, organizational behavior researchers sought to explain the motivation bases of organizational citizenship behavior (OCB). At the time, OCB was viewed as voluntary activity, not part of regular job duties, which served the interests of work groups and organizations. Dennis W. Organ argued that OCB could be accounted for in terms of Blau’s work. Specifically, if an employee had a social exchange relationship with an employer, then she or he would exert extra effort with the confidence that, over the long run, things would “even out.” Organ’s view proved very influential. Besides OCB, Blau’s conceptual model has since been applied to endeavors such as workplace fairness, leadership, organizational commitment, and organizational support, among others. This approach to social exchange theory de-emphasizes certain features of the paradigm but emphasizes others. On one hand, this approach attends less to social power, decision interdependence, and the specific pattern of outcomes exchanged over time. On the other hand, this approach underscores the central role of close working relationships and their importance to organizational success. As thinking about social exchange relationships has evolved,
there has been a tendency for theorists to treat interpersonal attachments in three distinct fashions: relationship-formation models, relational-attribute models, and relationship-context models.

**Relationship-formation models** emphasize the development of social exchange relationships. Research on trust formation by Roy J. Lewicki and his colleagues takes this view. According to these scholars, trust develops through three stages. Stage 1 is calculus-based trust. Calculus-based trust is grounded in the balance between the costs and benefits of the relationships. If the latter outweighs the former, then this sort of “trust” exists. The second stage is knowledge-based trust. Knowledge-based trust is predicated in the understanding and predictability of the behavior of another person. If all goes well, this gives way to the third stage, identity-based trust. Identity-based trust, which can be thought of as the highest form of a social exchange relationship, is based on an appreciation of the other person’s needs and desires.

**Relational-attribute models** treat attributes of the relationship as benefits to be exchanged. For example, Sternberg’s theory of romantic love contains three components, at least two of which (commitment and intimacy) are amenable to exchange. Likewise, Uriel Foa and Edna Foa present six classes of goods that can be transacted. Two of these goods, status and love, are treated as attributes of relationships in other theoretical models. Relational-attribute models have also made an appearance in macro-organizational sciences. Some work that focuses on executives or interorganizational dynamics has explored exchange attributes and their impact on organizational outcomes. For example, this research shows that attributes such as interdependence or “know-how” (acquired competitive knowledge) are important qualities for relationship development and reciprocity patterns.

**Relationship-context models** examine how aspects of the relationship alter the way that goods are exchanged. John Hollander’s well-known work on idiosyncrasy credits is a good example of this tradition. According to Hollander, leaders earn these credits by treating their subordinates well. As the stock of credit expands, a manager improves his or her relationship with employees. Later, leaders can draw on these credits when making a controversial decision. In essence, the good relationship means that workers will give their leader the benefit of the doubt when something has gone wrong or has the potential to go wrong. Similarly, within the macro-organizational sciences, researchers have found that executives doing favors for key stakeholders yields important reciprocal patterns that affect organizational performance and firm reputation. This work is consistent with the relationship-context model. Specifically, doing favors generates an obligation in the other exchange partner to reciprocate favorably. Not doing favors may generate retaliation.

**Evolution**

The founding, or at least the original inspiration, for social exchange theory can be attributed to Adam Smith’s *An Inquiry Into the Nature and Causes of the Wealth of Nations*. In Book I, Chapter 2 Smith famously outlined his theory of the “invisible hand.” According to this framework, individual economic transactions provide an efficient means for allocating society’s resources. By extension, communities are bound together in a “bottom-up” fashion, as the result of a spontaneously emerging market. In this regard, Smith foreshadowed the emphasis on reciprocity that would become central to social exchange theory as the paradigm developed.

The long-standing debate on the meaning of Smith’s work continues. However, it can be said with some confidence that, insofar as the economic system was concerned, Smith focused on individual self-interest as a key motivational principle behind his “invisible hand.” Self-interest included strictly commercial considerations, of course, but it also concerned a desire for social approval. This is not to say that Smith rejected all motives other than self-interest (see, for example, his *Theory of Moral Sentiments*), only that self-interest plays a central role in his economic thinking. This concern with self-interest would be a point of contention in later social exchange research, as we shall see.

While Smith’s outline of social exchange anticipates much later work, it is noteworthy that the “invisible hand” is grounded primarily in the domain of economics. Roughly a century later, the sociologist Albert Chavannes began to give social exchange theory its modern hue. Chavannes accepted Smith’s notion of an emergent order generated through individual social exchanges. However, he criticized Smith on two points. First, Chavannes believed that economic self-interest did not exhaust the range of
human motives, even in economic settings. He recognized other reasons for action, such as a sense of duty. Second, Chavannes was interested in individual relationships, which he argued developed from beneficial exchanges. People may begin to trade based on their pecuniary interests, but over time, they often experience a sense of affection and loyalty toward one another. With Chavannes’s critique and extension of Smith, we can see the foundations of modern social exchange theory’s core metatheoretical positions: (a) exchanges of goods, (b) which are based on considerations in addition to economic self-interest, (c) that spontaneously build relationships, which can then (d) provide the infrastructure for stable societies and business organizations.

While Chavannes had identified the major themes of social exchange theory, his “arm chair” approach to the topic lacked empirical data. Additionally, Chavannes theorizing, like that of Smith, was based largely on Western nations. Non-Western and preindustrial cultures were deemphasized. Early in the last century, scholars began to address these limitations through fieldwork in non-Western societies. One such thinker was the influential anthropologist Bronisław Malinowski. Reciprocity, though mentioned by Smith and Chavannes, placed an especially important role in Malinowski’s work. He argued that reciprocity involves the tendency to “repay” the provision of a good or service based on obligations that people felt were owed to one another. Reciprocal exchanges tie people together. Interestingly, Malinowski also provided an early description of what would later be called a “social exchange relationship.” He argued that people supported one another with the general assumption that exchanges would balance over the long run. This idea was central to later organizational behavior research.

Marcel Mauss held similar views. Mauss stressed that gift exchanges had symbolic value within the context of particular cultures. Certainly, some gifts held economic value, but others went beyond monetary worth. Transactions involving such gifts could build social ties that allowed societies to function harmoniously, even in the absence of a central government or “top-down” administration. As was the case with Chavannes and Malinowski, Mauss argued that individual transactions, which were not exclusively economic, built relationships among individuals. He stressed that these reciprocal exchanges often resulted from felt obligations and shared ethical norms.

During the late 1950s and early 1960s social exchange theory took on its now familiar look. Quite bit of contemporary research still draws heavily on the theoretical perspectives that were originally laid out, though in seminal form, during this era.

Importance

Social exchange theory emerged early in the industrial revolution with the thinking of Adam Smith. Over the years, it has borrowed from major social and behavioral science disciplines, such as anthropology, psychology, and sociology. Given its richness, it should come as no surprise to learn that social exchange theory has had a profound influence on much of the conceptual thinking that underlies management. For example, there are social exchange models of leader–member exchange (LMX), trust formation, organizational commitment, organizational justice, and organizational citizenship behaviors. Despite this attention, or perhaps because of it, the specific paradigms explored under the rubric “social exchange” are quite diverse and not always closely integrated. As a result, there are many insights from social exchange theory that remain unexplored by organizational scientists and could be more broadly applied to work settings. There is reason to suspect that research on this fascinating conceptual paradigm will keep scholars busy for many decades to come.

Social exchange theories hold many applications for practitioners and managers. As we have outlined, social exchange principles explain the nature of social interactions among organizational members and between organizations. They help describe what motivates employees to work at high levels and also what motivates them to sabotage and undermine workplace goals. While differing models of social exchange have emerged in the literature, a consistent theme among them is that behavioral patterns demonstrated within exchange relationships can take on the reciprocal nature of beneficial and harmful contributions that are exchanged among organizational members and between organizations. Such exchanges can foster cooperative relations or end them. Thus, social exchange principles are important for managers to consider as they seek...
Social Facilitation Management

How does the presence of others impact employee performance? The construct social facilitation was coined in an attempt to answer this question, and more than 90 years of research has sought to better understand the answer. In organizations, the social facilitation effect represents the extent to which an employee's performance increases or decreases when the employee performs his or her work in the presence of others. In organizations attempting to maximize performance, a better understanding of social facilitation is imperative. The following entry provides a succinct summary of what social facilitation is, how and when it impacts performance, and its managerial implications for teams, workplace design, and employee monitoring.

**Fundamentals**

While the social facilitation construct has important implications for the management of individuals, teams, and organizations, the construct's deep roots are anchored in basic psychology and sociological observations. For example, near the beginning of the 20th century, it was observed that bicyclists recorded faster times when riding with others compared to riding alone. Later, it was found that people generating lists of ideas produced a higher number of ideas when in a group context. These observations spawned a century of investigation of research into the social facilitation effect. This article highlights several of the tenants and findings of this theory and the implications it has for modern management practice.

Despite its name, research has revealed that the social facilitation effect is not always positive. That is, there are times when having other people present has a detrimental effect on employee performance. The evidence suggests that one primary factor that determines if the social facilitation effect is positive is the type of task being completed. For physical tasks, the social facilitation effect tends to be positive, with the presence of others leading to higher performance. For complex or unfamiliar tasks, however, the social facilitation effect tends to be negative, with the presence of other reducing task performance. Thus, the nature of the organization's work is an important factor that determines whether the social facilitation works for or against the organization's performance goals.

Along with task type moderation, current research is converging with research on social loafing. Social loafing research has demonstrated that in group contexts individuals may have a tendency to
reduce the effort they expend on the group’s work. While this would seem to contradict the social facilitation effect, research has shown that both effects can simultaneously operate if the individual inputs are distinguishable. Said another way, whether or not the social facilitation effect is positive or negative may also depend on the identifiability of individual (vs. team) contributions. If individual efforts are identifiable, then the social facilitation effect is present and positive. If individual inputs cannot be distinguished from group inputs, however, the social loafing effect or negative social facilitation effect is more likely to appear.

There are three interrelated mechanisms by which social facilitation works: drive, comparison, and cognitive resources. The drive mechanism suggests that the “mere presence” of other individuals creates a greater arousal state in employees. This instinctive increase in energy results in greater motivation for task performance. The comparison mechanism states that employees naturally tend to compare themselves to others and have an apprehension of being evaluated. Thus, employees will have a tendency to increase their efforts in order to improve the evaluation that others have of them and the evaluation they have of themselves. Finally, the cognitive resources mechanism states that the presence of others creates attention conflict as employees try to pay attention to both the task and the people. This conflict creates a degree of arousal that can augment performance on simple tasks. For complex tasks, however, where more cognitive resources are required for performance, conflict reduces the cognitive resources available for task performance and therefore reduces that performance.

**Social Facilitation and Implications for Management**

The many years of research on the social facilitation effect have important implications for modern management. Three of these major implications include work teams, workplace design, and electronic performance monitoring.

The use of work teams is one area where the task type moderation of the social facilitation effect has clear implications. Managers and organizations routinely make choices about how to structure the work in the organization, with work teams representing one such structure that has been gaining in popularity in recent years. The clear implication of social facilitation effect is that if the underlying work to be accomplished is physical in nature or relatively simple, then the use of work teams with identifiable individual accountabilities would be likely to yield benefits because of the social facilitation effect. Conversely, when the work is more cognitive in nature and relatively complex with individual-level accountabilities that are not specified, a negative social facilitation effect may occur along with a potential social loafing effect. This is not to say that teams should never be used to complete complex work; on the contrary, teams are often the structure of choice for managing complex tasks. Rather, managers in organizations need to ensure individual-level accountability within teams and consider whether the performance gains as a result of integrated expertise, complexity management, and synergy are greater than the performance decrements as a result of the social facilitation effect, social loafing, and other process losses.

The social facilitation effect mechanisms also have implications for the management of organizations’ physical space. For example, a trend in organizations is moving from traditional office space to one of cubicles or shared work space. While this removal of physical barriers is intended to increase communication and collaboration as well as reduce infrastructure costs, the literature on the social facilitation effect suggests that although it may produce benefits such as increased physical activity because of evaluation apprehension, it may also increase distraction on more complex cognitive tasks and reduce performance. Thus, organizations should also consider the social facilitation effect in their workplace design decisions.

Finally, the social facilitation effect has clear connections to the organizational practice of electronic performance monitoring. Electronic performance monitoring involves tracking employee behaviors and productivity via their interactions with computer-based technologies. Applied research on social facilitation in this context illustrates that the monitoring does tend to increase stress levels, which results in higher performance for employees skilled at the task and lower performance for employees inexperienced at the task.

Thus, the social facilitation effect has stood the test of time but has also become more nuanced in its predictions. Managers should consider this nuance
and their specific context in determining its likely impact on performance in their organizations.

Troy V. Mumford

See also High-Performing Teams; Human Resource Management Strategies; Job Characteristics Theory; Virtual Teams; Work Team Effectiveness

Further Readings


Social Identity Theory

Social identity theory (SIT) is important to management research and practice by informing the development of an individual's self-concept within the context of social groups, in particular, to address questions related to “Who am I?” SIT explains how self-classification in group membership shapes an individual’s self-concept by creating, defining, and locating his or her position within an intergroup system of meaning derived from social categorizations and comparisons. Henri Tajfel developed the seminal work for SIT when he first defined social identity as a person’s knowledge of belonging to particular social categories that become meaningful in shaping behaviors, beliefs, and values when compared to other social groups. The theory relates to numerous management concerns, such as group dynamics, intergroup relationships, team development, leadership, social networks, human resources, diversity management, and organizational culture. The following discussion summarizes the major ideas of SIT, reviews its key developments, and highlights some of its main influences on management research and practice.

Fundamentals

The SIT Model

The SIT model identifies a process in which individuals’ social identification with perceptually salient, distinctive social categories drives self-evaluative and subjective classifications and identifications that can create internal in-group prototypes and depersonalized out-group stereotypes that often result in enhanced self-esteem, reduced uncertainty, self-reinforcing intragroup assimilation and congruency, and potential conflict stemming from intergroup differences.

SIT maps a system of relational meaning derived from membership in social categories of intergroup relationships between in-group versus out-groups. Identity refers to the meanings and attributes that individuals have for their self-concept. Multiple identities are generated from membership in different social groups. Membership in social groups includes gender, age, religion, organizational membership, ethnicity, and many others. Within organizations, social groups may be the organization itself, departments, shared professional occupations, committees, status, and other types of social groups in organizations. Key factors that lead individuals to identify with a particular social group include (1) the distinctiveness of the group’s values and practices relative to comparable group, (2) prestige of the group’s status, (3) awareness of the out-group, and (4) traditional factors of group formation—interpersonal interactions, proximity, shared goals, liking, common history, and so on. Turner defines a social group based on perceptions of sameness where two or more individuals see themselves as sharing a common social identification. Thus, membership in a social group is a self-directed process along with self-evaluation in identifying shared similarities.

Focus. Belonging to a social group enables uncertainty reduction and consensual validation afforded
by the in-group prototype as well as the positive value for self-esteem based on in-group distinctiveness compared to out-group differences. People would normally choose the different social categories that are salient in terms of providing positive attributes that can be extrapolated for their own self-concept. The choices for memberships are based on subjective perceptions of connections or classifications. While social identification focuses on membership in different social categories, it is distinctly different from internationalization, which involves integration of values, attitudes, and related features. Although one may belong on a team, one may not necessarily share the particular values, strategy, vision, or other characteristics.

**Group dynamics.** Developing a positive social identity requires beliefs about the nature of intergroup relationships, such as legitimacy, status, permeability, and stability. Tajfel and Turner extended social identity theory with self-categorization theory to account for how individuals express prototypical behaviors and attitudes of their social group over their distinctive individuality. In particular, self-categorization theory focuses on specific microprocesses of developing a social identity within an individual in relation to classification within social groups. Self-categorization emphasizes the perceived similarities within group. At the same time, a parallel process of depersonalization occurs in reference to those in out-groups. Prototypical characteristics integrate attributes of the in-group while at the same time differentiating it from out-groups. But optimal distinctiveness theory describes how some individuals create a balance between their shared characteristics and individual uniqueness. Nevertheless, the cognitive assimilation of self into the in-group prototype produces a number of outcomes, including positive in-group attitudes and cohesion, cooperation and altruism, collective behavior, shared norms, stereotyping, and ethnocentrism. As a result, in-group favoritism occurs even with minimal to no interaction along with discrimination against out-group members.

**Consequences.** A central premise of SIT is that achieving a positive self-concept relies on evaluating in-group more favorably than out-group. This results in disparate treatment of members in an out-group that includes unfair discrimination, stereotyping, and prejudice. Consequences of social identification are that (1) individuals choose social groups salient with their individual identities; (2) group formation has cohesion, cooperation, and altruism; and (3) antecedents of identification become reinforced. An important contribution of SIT is that identification can occur without the necessary interpersonal cohesion, similarity, or interaction.

**SIT and Management**

SIT draws heavily from social psychology to focus on work-related identities. Daily work interactions help create a composite of self from different roles, groups, tasks, and activities. Blake Ashforth has applied SIT to processes such as organizational socialization, role conflict, and intergroup relations. Newcomers to an organization need orientation to integrate their self-concept with a positive and distinct organizational identity that may involve storytelling, symbolism, and related identity work. SIT applied to role conflict indicated that cognitive resolution can be achieved with ordering, separating, and buffering as well as compartmentalizing identities, with possibilities of double standards, apparent hypocrisy, and/or selective forgetting. Hence, SIT accounts for two motivations in processes of social identity: (1) self-enhancement with positive favorable attributes and (2) uncertainty reduction to simplify and organize a complex social environment.

Identity work can take place internally with inward cognitive processes for identity creation and maintenance as well as externally with negotiating image and reputation. Being able to avoid the challenges of both “underidentification” and “overidentification” is necessary to mitigate socially deficient or excessive identification. The internal and external processes tend to be complex with tensions between individual distinctiveness and social connectedness in groups. Identity salience helps sort out which identities are more central to an individual’s self-concept and aspirations to an ideal self. Social identity complexity refers to how much perceived overlap exists between an individual’s different social groups. When the different groups have similarities in membership and prototypical characteristics, the degree of social identity complexity is reduced. Cultural identity formation involves a three-stage model—exploration, resolution, and affirmation. For example, becoming an American
Social Identity Theory requires exploring what cultural practices and meanings are involved; resolving conflicts between different identities, such as being an immigrant to being an American; and affirming to see oneself as an American. Similar identity work processes are likely to occur with career transitions, promotions, and mergers and acquisitions.

Integration into an in-group not only benefits an individual with positive support, but also one is more likely to contribute to the social group and freely assist its members. This cooperation has important implications for productivity in work organizations with effectively bringing new employees on board or building high-performance teams. Identity orientations are personal, relational, or collective. The three identity orientations recognize how individuals vary in their degree of willingness to engage with others to collaborate.

Further research into the positivity of work-related identity by Jane Dutton and her colleagues described four theoretical perspectives that allow organizational members to access and build their social resources. The four articulated perspectives of “positive” work-related social identity are virtue, evaluative, developmental, and structural. These lenses recognize that individuals may have different needs for social resources to strengthen the development of their self-concept. They also represent different sources or pathways that managers can facilitate to support and shape the identity development process in a particular direction to achieve desirable organizational outcomes.

Finally, it is also important to note that the social structure of groups does not establish equal status for all groups. Dominant groups seek to legitimate the status quo by exercising their power and status, whereas subordinate groups become involved in social change to improve the positive position of their group, as in the case of women and minorities in management. Some in-groups have negative distinctions. Members of negatively distinct groups such as lower class to upper class achieve positive social identity by exercising various strategies. If access to a higher-status group is possible, individuals may increase positive values for their social identity with social mobility without altering the in-group’s status. Individuals may also exercise other strategies to leave a negatively distinctive in-group, including psychologically leaving by decreasing identification, decreasing perceived similarity to in-group, increasing perceived similarity to a higher-status out-group, decreasing time spent with in-group, and decreasing physical and/or behavioral similarities to in-group. At a group level, collective strategies can be used to change negatively distinct in-groups to shift toward more positive orientations. One is social creativity by shifting from a negative orientation on a dimension toward a more positive one and/or changing the dimension to a different one that is more positive. Another is social change or social action that involves collective actions to change the status quo by confronting out-group members to alter the in-group status.

Evolution

Henry Tajfel is a major intellectual figure who shaped the post-World War II development of European social psychology in terms of the professional infrastructure, new intellectual movement in the field, and seminal concepts in intergroup relations that were integrated in SIT during the 1970s. Tajfel’s major contributions were social perception and intergroup relations based on the premise that social psychological functions at the individual level are interrelated in a reciprocal manner with the large-scale social context and processes. Tajfel and Turner’s collaboration continued to extend the development of SIT with Turner’s contribution of self-categorization theory. Minimal group paradigm (MGP) developed from a methodology used to conduct research on the minimal conditions leading to intergroup discrimination. Tajfel developed psychological experiments that stripped away as much noise as possible to focus on minute differences between groups to identify favorability of in-group behavioral dynamics, norms, and attitudes. Recently, researchers employed MGP to examine prejudice against immigrants.

The volume of social psychology research grew rapidly from Tajfel and Turner’s ideas. While many of their key ideas evolved from within a context of the Cold War, management researchers began to integrate SIT to examine work-related identities in the 1980s. Blake Ashforth and Michael Hogg are two prominent researchers who articulated the relevance of SIT in a range of organization workplace issues. Developments of SIT in organizations examined intergroup and individual state of social identity and processes of social identity development by
accounting for multiple social group memberships within the context of workplace issues. Important contributions from an organizational perspective for SIT include the conflicts arising from social identity complexities, tensions from dual identities, and processes of social change at a group level to alter the status of negative distinctiveness. In contrast, processes of decline with increasing negative distinctiveness have not been addressed but require investigation that is relevant for organizations facing stress in the face of bankruptcies or scandals.

Today, SIT research is taking place as organizations are challenged to develop more diverse workforces related to a multicultural agenda and demands from an increasingly global marketplace. For example, within the conceptual space of relational demography and diversity management, SIT examines how people compare their own demographic characteristics such as age, gender, race, ethnicity, and others to those in other demographic groups. A particular work unit provides the context for daily interactions within which in-group versus out-group comparisons of behaviors occur. Diverse organizations need to develop a context that enables frequent interactions across demographic groups to create a shared identity, leverage the talent of different individuals, and create a multicultural organizational environment. Self-management by leveraging relational demography likely involves micro role transitions and managing boundaries.

Research in SIT continues to extend in both depth and breadth with a wide range of organizational topics in varied settings. Some of the organizational studies related SIT to topics including identity management, identity conflicts, identity threat, team diversity management, decision making, conflict management, leadership, motivation, sexual orientation, stereotypes, commitment, group performance, physical environment, emotions, role transitions, boundary spanning, careers, social injustice, boundary management, and performance feedback. Hence, SIT holds significant relevance for the field of management that is expected to continue into the future.

Importance

SIT is critically important in management research and practice for a number of different reasons. First, SIT helps explain the significance of how the social context shapes one’s sense of self where the relationship between individuals and social groups entails reciprocal dynamics. Researchers related SIT to organizations to illuminate work-related identities where members engage with a composite of multiple group memberships that may span their immediate work groups to the superordinate group. The sense of belonging to organizational groups matters to shape its membership’s self-concept. A positive organizational image and reputation contributes to a positive self-concept that in turn motivates individuals to behave in ways that reinforce the positive features. For management practitioners, SIT provides directions for managing the balance between harmonious work groups and commitment to the superordinate group at an organizational level.

Second, SIT outlines intergroup relations, especially with social identities related to demographic diversity and cross-cultural groups. This is increasingly important with increasing diversity in the workplace. Tajfel’s earlier work on stereotypes and prejudice provides leads to understanding both positive and negative distinctiveness of groups. Subsequently, management researchers identified key strategies for managing negative distinctiveness, dealing with threats to identities, and bullying behaviors in the workplace. With each one of these issues, researchers developed further depth and understanding into the phenomenon by building on SIT and developing further depth and breadth in understanding how social identities engage with challenges to in-group favorability.

Third, SIT provided relevant insights into organizational processes such as individual development, leadership identities, group processes, and intergroup relationship dynamics. Social cultural settings contribute to these processes that lead to prejudice and discriminatory practices between in-group and out-group dynamics. In-group favoritism bias is a central concept in these processes as well as situations of selecting and hiring new employees, allocating rewards to team members, appointment of directors to boards, leadership development, different mentoring relationships, minority recruitment, and many other related topics. Positive treatment of in-group members and negative treatment of out-group members can lead to intergroup discrimination. But instances of reversals of in-group favoritism also take place when members are biased against others in their own in-group. As a result, a variety of concepts helps extend the process of self-concept in SIT.
Fourth, SIT is being applied by researchers to innovative concepts such as group fault lines and relational demography. The term *fault lines* refers to the hypothetical dividing lines subdividing a group as a result of multiple differences, often demographic ones. The division impacts group processes in terms of conflict management and cohesiveness, employee satisfaction, and performance outcomes. Dynamics of fault lines become salient when they raise the issue of identity threat, which is defined at the individual level as experiences considered as potentially harmful to the values, meanings, or enactment of an identity. Additional definitions of identity threat include questioning an individual’s sense of self; stigma-relevant stressors that exceed the ability of an individual to cope with them; and when the process of identity is disabled from its continuity, distinctiveness, and self-esteem. Responses to identity threat are classified into two categories—(1) identity protection with derogation, concealment, or positive distinctiveness or (2) identity restructuring with identity exit, meaning change, and importance change. While derogation and concealment result in an outcome of the identity threat being maintained, the remaining four have the potential to eliminate the threat. Moreover, attention is just starting to be focused on understanding strategies to alter relational dynamics of in-group and out-group relationships based on social identity. In addition to examining the micro- and meso-processes, researchers are examining SIT from a critical theory perspective to raise the issues of power and gender in intergroup relations.

Overall, the research contributions of SIT are substantial and extensive to address a wide range of work-related identity issues with both breadth and depth. Because of its explanatory power and provocative theoretical and empirical range, SIT continues to grow as a referential framework with significant research and management implications and applications in the context of daily work interactions in organizations.

**Further Readings**


**SOCIAL IMPACT THEORY AND SOCIAL LOAFING**

Social impact theory was introduced by social psychologist Bibb Latané in 1981 as a potentially unifying theory of social influence processes. It provides a framework for analyzing the impact of social influence attempts or situations in terms of social and situational factors that can influence the relative power of various potential sources and targets of influence. In the case of a group of people trying to influence a specific individual, the theory proposes that the magnitude of social influence will be a multiplicative function of the strength (e.g., status or

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See also Group Development; Interactional Model of Cultural Diversity; Norms Theory; Organizational Identification; Organizational Socialization; Organizationally Based Self-Esteem; Positive Organizational Scholarship; Self-Concept and the Theory of Self
expertise), immediacy (i.e., physical or psychological distance), and number of people in the influencing group. In the case of an individual attempting to influence other people, his or her influence should be divided across those others as an inverse function of the strength, immediacy, and number of people in the target group. The theory has been applied to a range of group, interpersonal, and organizational phenomena. One prominent area of application has been in the development and growth of research on social loafing, which refers to the tendency for individuals to work less hard on group or collective tasks than on individual tasks. This entry explains key elements of social impact theory, illustrates the variety of phenomena it has been applied to, discusses its prominent role in social loafing research, traces its recent development into a dynamic model, and briefly highlights its contributions to research and practice.

Fundamentals

Social impact theory represents a broad, integrative perspective with the potential for understanding a range of social influence situations from a limited set of common principles. Latané considered social impact in terms of any influence that the real, implied, or imagined presence or behavior of others could have on the physiology, emotions, motivations, cognitions, or behavior of individuals. This broad scope encompasses a wide range of potential social or interpersonal phenomena.

Latané grounded his perspective within the general metaphor of social forces (analogous to physical forces such as gravity, light, or sound) that operate within a social structure or social force field. He reasoned that individuals and groups are capable of exerting social influences on one another as a function of their relative size and the prominent social factors that influence the power or magnitude of their respective social influences. In particular, social impact theory posits three key principles about the dynamics of social influence.

First, the theory predicts that the social impact experienced by an individual is a function of the strength, immediacy, and number of influence sources, as represented by the equation

$$I = f(SIN)$$

Strength refers to the power or importance of an influence source, which might be affected by factors such as one’s status, prestige, or position of authority. Immediacy refers to physical or psychological closeness in space or time, which might be affected by physical distance or by the presence versus absence of barriers, filters, or delays to communication or visibility. Number refers to how many people are attempting to exert influence.

Second, the theory suggests that increases in the number of sources should have more impact on targets when groups are small rather than large. Specifically, it posits the existence of a psychosocial law, represented by the equation

$$I = sN^t$$

wherein the amount of impact experienced by an individual is equal to some power, $t$, of the number of sources present, $N$, multiplied by a scaling constant, $s$. Moreover, the value of the exponent $t$ is predicted to be less than one. Therefore, the social impact experienced by the individual should increase as the number of influence sources increases, but this incremental increase in impact should diminish as $N$ gets larger and larger. Thus, the increase in experienced social impact should be larger when the number of sources increases from two to three rather than from 20 to 21 and so on.

The third key principle concerns the multiplication versus division of impact based on the number and nature of influence sources (i.e., those exerting influence) and targets (i.e., those being influenced) present. Namely, multiple influence sources intensify the magnitude of social impact, whereas multiple influence targets diminish it. In the case of a group’s influences on a single individual, this influence is predicted to be a multiplicative function of the strength, immediacy, and number of group members. Inversely, in the case of an individual attempting to influence a group, this impact is predicted to be divided across the group members. Overall, the influence exerted within a given social force field is based on the strength, immediacy, and number of influence sources divided by the strength, immediacy, and number of influence targets.

Social Loafing

Perhaps most relevant to managerial contexts, social impact theory has been a driving force behind the development and maturation of research on social loafing. Social loafing refers to the tendency for individuals to work less hard on group or collective
tasks than on individual tasks. On collective tasks, social impact theory predicts that the request from an outside source of influence (such as one’s boss) to work hard on the task should be divided among the group members, resulting in less effort than if these same individuals were working alone. Moreover, consistent with the psychosocial principle, this reduction in effort should be more evident as group size increases. These hypotheses were supported in a seminal 1979 research article by Latané, Kipling D. Williams, and Stephen Harkins that coined the term social loafing and provided an influential example of how to study the phenomenon in a way that allows motivation losses to be separated from mere lack of coordination of members’ efforts.

Research on social loafing has since evolved into a rich and mature literature consisting of more than 100 studies that have examined a wide variety of populations and tasks. A 1993 meta-analysis of 78 studies by Steven J. Karau and Williams concluded that social loafing is moderate in magnitude and replicates across most tasks and studies, yet it is also influenced by a variety of moderating variables that can reduce or even eliminate the effect. For example, social loafing can be reduced when individual inputs are easier to identify, when the group is cohesive, when group size is small rather than large, and when the individual identifies with the group can make more distinctive contributions or views the task as high in meaningfulness or importance. Although the bulk of studies have been conducted in laboratory settings, field studies of social-loafing perceptions within teams in business organizations and classroom settings have generally produced results highly consistent with those from laboratory studies.

**Dynamic Social Impact Theory**

Social impact theory was originally fairly static in nature, focusing on a specific influence situation or event. However, several later analyses in the 1990s and beyond by Latané and colleagues have proposed dynamic modifications of the theory that extend its basic assumptions to their iterative implications over time. Dynamic social impact theory considers groups as complex systems of individuals who interact in some manner to jointly influence their social environment. It proposes that, through the repeated interaction within the system of individual-level social influences, large groups tend to show four patterns of self-organization over time: (a) consolidation—a reduction in the number and diversity of attitudes or judgments within the group; (b) clustering—the formation of coherent subgroups within the larger group, especially as influenced by geography or communicative proximity; (c) correlation—the association of originally unrelated opinions, in part through the impact of particularly influential members; and (d) continuing diversity—the persistence of some minority viewpoints or judgments, largely because clustering processes prevent consolidation from fully eliminating minority attitudes. Dynamic social impact theory has received initial support from complex computer simulations, as well as from studies of attitude formation and change within large classroom, electronic discussion, or community groups. It represents a promising source of hypotheses and insights for future research on the dynamics of social influence patterns within groups over time.

**Importance**

Social impact theory represents a prominent perspective for understanding a wide range of social influence phenomena. It has proven useful both in integrating prior research in areas such as persuasion, minority influence, and social anxiety and in stimulating new research in areas such as group motivation and influence patterns in large social networks and communities. The theory was also very influential in driving early and continuing research on social loafing. The diversity of phenomena to which the theory has been applied makes a full assessment of its research support somewhat challenging and tentative. Yet evidence to date appears largely encouraging. Hypotheses regarding the number of influence sources and the psychosocial principle have received the strongest support, with evidence for strength and immediacy of sources generally supportive, albeit sometimes weak or mixed when comparing across individual studies. The theory has been particularly influential among social psychologists and has enormous potential (largely unexploited) for future organizational research.

Social impact theory is potentially applicable to any situation involving social influence. Indeed, the theory has been applied to a host of social influence phenomena, including conformity, persuasion, aggression, attitude formation and change, bystander intervention, voting behavior, motivation, group performance, and social anxiety. The theory has been deployed in a number of instances to help organize
existing research literatures. For example, Latané and Sharon Wolf provided a compelling integration of past research on major and minority influence processes in groups. Social impact theory has also been used to derive testable hypotheses in a variety of social influence domains. The theory’s potential for producing novel insights and clever methodological choices has been evident in dozens of empirical studies. In one example, an interesting field study by Constantine Sedikides and Jeffrey M. Jackson examined social influence processes at a zoo. Requests for visitors to refrain from leaning on exhibit railings were found to be more successful when delivered by an individual wearing a zookeeper’s uniform (high source strength) rather than casual dress, within a short duration of the request (high immediacy) rather than at a later exhibit, and in small rather than larger visitor group sizes (number of targets). In another example, an experiment by Karen B. Williams and Kipling D. Williams examined the inhibiting role that concerns with being evaluated negatively by others could have on seeking help. Groups of eight students were asked to take exams on computers that had been rigged to malfunction. Individuals were slower to seek help from high- rather than low-status test givers and when there were three rather than one test giver, supporting social impact theory’s hypotheses about strength and number.

Regarding managerial practice, the theory has some relatively straightforward implications. Namely, influence can potentially be increased by enhancing the leader’s strength and immediacy (such as by increasing one’s status, credibility, or physical proximity) or by increasing the size of the influencing group and is potentially diminished by an increase in these same factors among targets of influence. The theory also highlights the potential for group tasks to reduce the effort of individual members, especially in larger groups and when individual efforts are difficult or impossible to identify. Finally, dynamic social impact theory suggests that patterns of attitude formation and change across large communities or social networks typically evolve predictable emerging properties over time.

**Further Readings**


**SOCIAL INFORMATION PROCESSING MODEL**

Social information processing (SIP) theory hypothesizes that people’s attitudes and motivations—at work or, for that matter, other places—are a function not just of the objective situations they face but also of the attitudes and motives held by others in their immediate environment; they are also a result of the effect of others to cause individuals to rationalize and make sense of past behavior. Because of the importance of these processes, one of the major tasks of management is to affect the informational context so that people come to see the world in particular ways. SIP theory developed in part in reaction to the large literature on job characteristics that spoke to the motivating potential of jobs and the importance of objective job characteristics. SIP theory argued that job characteristics were not merely objective properties of particular work arrangements but rather were socially constructed through a process of collective perception and agreement. And

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See also Asch Effect; Brainstorming; High-Performing Teams; Influence Tactics; Social Cognitive Theory; Social Facilitation; Social Information Processing Theory; Systems Theory of Organizations
perceptions of job attributes were also created by the choices people made and their need to make sense of those choices. Thus, people in an employee’s environment influenced what job dimensions the person focused on, what information the person used in assessing those dimensions of the work environment, and what attitudes and perceptions to hold. As a consequence, management could intervene in the workplace not just by changing the objective features of the job but also by affecting how people thought about and talked about their work. This entry reviews the arguments and predictions of SIP and also places the theory in the context of other ideas that emphasize the importance of context for understanding behavior.

**Fundamentals**

SIP posits that, as adaptive organisms, individuals modify their attitudes and behavior to accommodate to the social environment in which they exist, as well as to their own past behaviors. The most commonly studied dependent variables have been perceptions of job characteristics—autonomy, variety, and so forth—and job attitudes such as overall satisfaction with the job and with particular facets of satisfaction, such as pay and the quality of supervision. In fewer instances, the dependent variables have included actual behaviors, particularly turnover (e.g., voluntarily quitting).

The first prediction is that social information affects perceptions of job attributes and job attitudes. The prediction has been tested using both field data and experiments. One experimental paradigm involved designing tasks that varied in their characteristics as assessed by others and then randomly assigning people to either enriched (more interesting and challenging) or unenriched (routine activities with little variety or autonomy) tasks and also exposing subjects to information that suggested that the tasks they were working on as part of the experiment were either enriched and challenging or not. Social information not only affected task perceptions but had an effect larger than the actual job characteristics. A typical field study design assessed the extent to which people working together and in frequent contact with each other shared perceptions of task characteristics and job attitudes. One study design asked whether people in contact had a higher degree of consensus on perceptions of job attributes and their job attitudes than others doing similar work but located in different units that had less (or even no) contact.

With respect to the effect of social information on behaviors, the prediction was that people would be influenced by what others with whom they were in contact did. So some research asked whether behavior was contagious within work units. For instance, in a study of turnover in fast food restaurants, once people began to leave, did others connected in their social interactions with those people also tend to leave at a higher rate? If those in contact with people who had quit also quit at a higher rate, this would indicate that turnover was influenced by social information; when others left, it would cause those still in the organization to reevaluate the work and job conditions and their own choices about staying or leaving.

The second main class of predictions from SIP theory was that, when called on by cues in their social environment to make sense of their choices, individuals would use logical inferences from their past behavior to infer their attitudes and perceptions about their work environment. In some sense, this prediction from SIP theory builds on and is a direct extension of the research literature demonstrating the effects of commitment in creating attitude-behavior consistencies. But SIP theory added the element of salience; specifically, the social environment, information provided by others, and even the particular framing of questions made some past choices and aspects of past behavior more or less salient and thereby differentially influenced how people constructed explanations for their actions.

As one example of this effect, consider a study of how students constructed attitudes toward a particular course. Some students were primed by the questions asked by the experimenter to think of pro-course behaviors, activities that would reflect interest in the class. Other students were primed to recall anticourse behaviors, actions that would be reflective of not enjoying or being interested in the class. Those study participants who were primed to recall pro-course behaviors, actions that would be reflective of not enjoying or being interested in the class. Those study participants who were primed to recall pro-course activities subsequently expressed more favorable attitudes toward the class than did those influenced to recall anticourse actions.

**Evolution**

The idea that people are influenced in their attitudes, perceptions, and motivations by the social context is
a very old one in the social sciences. Leon Festinger argued that when confronted with uncertainty and ambiguity, people looked to what others were doing, thinking, and saying as a way of helping resolve that uncertainty. One intriguing manifestation of this social influence effect appears in the literature on bystander intervention. The original incident that stimulated that literature was a case of numerous people watching without doing anything while a woman was stabbed on the streets of New York City. The initial puzzle was, How could so many people stand by and do nothing while someone was brutally attacked? But the very fact that there were so many people watching was precisely the reason that no one intervened. Not only was responsibility diffused across the many witnesses so that no single individual felt the need to take action, the fact that many others weren’t doing anything made inaction normative, expected, and accepted. Doing nothing was what others, similarly situated, were doing. All those others could not be wrong.

The enormous literature on conformity pressures and adherence to group judgments also is consistent with ideas of attitudinal and behavioral uniformity with respect to the work environment but for a different reason. As social creatures, people want to be accepted and liked by their peers. Indeed, social ostracism is very stressful and punishing. Because a fundamental basis of interpersonal attraction is similarity, including similarity in attitudes, the argument is that people would conform to the attitudes and judgments of others as a way of ensuring their acceptance by and into peer groups.

A third foundation for attitudinal and perceptual similarity among interacting peers comes from the idea of social proof. Robert Cialdini and others have argued that people have limited information-processing capacity and, moreover, are miserly in their cognitive efforts. People don’t want to expend time thinking about something if they don’t need to. If others, and particularly similar others, have come to a judgment or taken some action, the simplest and most straightforward thing to do is to assume these others must be right and not to spend a lot of time and effort revisiting the question. Thus, a third mechanism explaining the uniformity of opinions and beliefs in the workplace is a motivation to avoid cognitive load and effort, taking the beliefs of others as informative about the state of the world.

For purposes of developing SIP theory, which of these explanations—and, of course, they are not mutually exclusive—is correct is irrelevant. The point is that many social science theories posit attitudinal consistency among interacting individuals, with such consistency increasing over time. The increase in uniformity over time results because dissimilar others would come to be excluded and possibly leave as a result and because a shared consensus about the definition of the situation would emerge as people mutually influence each other through a process of informational social influence.

For people to influence others’ perceptions, for instance, about job characteristics, it must be the case that not only is there social influence but also that the reality of the work and task environment itself is and can be socially constructed. Once again, numerous social science writings are consistent with this idea. Here are just some examples. The large literature on the durability of first impressions posits that initial information, about someone else as an example, maintains its hold because new information is assimilated in ways to be consistent with the initial judgments, people stop seeking additional information once they have formed a judgment about another, and discrepant information is dismissed as being not valid. If initial impressions matter and if initial impressions can be based on information provided by others, then the “facts” about a given individual may matter less than the socially constructed image. And what is true for individuals is also true for particular jobs and organizations—initial reputations and perceptions can and do become stable, self-fulfilling, and self-reinforcing over time.

The literatures on the self-fulfilling prophecy and organizational performativity also provide mechanisms that would account for how reality becomes socially constructed. The self-fulfilling prophecy literature shows that expectations matter because expectations influence what people do, in that people not expected to perform well don’t expend as much effort and don’t do as well because of the anxiety aroused by the anticipation of failure. The literature on organizational performativity demonstrates that when institutional arrangements are constructed in ways consistent with social beliefs and theories, these very institutional arrangements can cause the beliefs and theories to be true because such arrangements make them or cause them to come into being.
One classic study in this tradition showed that originally the Black-Scholes option pricing formula had a number of theoretical rivals and did not do a particularly good job of predicting the prices at which options actually traded. However, once the model became operationalized on sheets showing option pricing and even in a software program, the advantage of this formulation, which relied on only one variable rather than several, and the availability of the prices it produced, increased the use of Black-Scholes’s predicted prices. In the process, the predictions of the model became true because the model affected institutional arrangements and the actions of traders that made it become true.

In the case of jobs and organizations, if a specific job or organization is perceived as “cool” or good, there will be many applicants and the quality of the applicant pool will be higher. Able to hire better people, the organization will be more successful. Moreover, people will flock to places where everyone else wants to be. Thus, what is a good place to work or a desirable sort of job depends on the beliefs of others and their acting on those opinions.

As a final example of the social construction of organizational reality, there is a large literature in ethnomethodology and sociology that also illustrates how the process unfolds. One important mechanism is measurement, with the measurement of something creating the reality of what is measured and potentially signaling its importance. Discourse and conventions of everyday conversation help frame what we see and how we see it. The definition of “mental illness” and what is “criminal activity” are obviously socially constructed by the agencies and professions that decide what normal behavior is and what is acceptable or illegal. In a similar fashion, talking about and measuring job variety or task autonomy signals that these are important dimensions of work. And the particular ways of measuring these or other organizational or job characteristics primes individuals to assess work environment dimensions in some ways using some measures rather than others.

And as originally formulated, SIP theory had a third important foundation: Interactions with others would, in many instances, compel people to have to explain their past decisions, and this process would cause them to rationalize and increase their commitment to those choices. For instance, someone might take a job that pays less than others for numerous reasons or for no reason at all, as behavior is sometimes automatic and practically free from thought. But other individuals in the social environment might ask about this choice, and this form of social influence would cause the individual to make sense of the choice and, by so doing, become more committed to working for this organization and also more committed to the reasons for the choice.

These ideas of social influence, the social construction of reality, and the presence of others causing people to rationalize and thereby increase their commitment to decisions, form the (well-established) theoretical foundations out of which SIP theory emerged.

**Importance**

Social information-processing ideas have been important in the first place because they have received substantial empirical support. In the years immediately following the publication of the theory, many studies found that the most important determinant of perceptions of jobs, as measured by instruments such as the Job Diagnostic Survey, was informational influence about the nature of the tasks as being enriched or unenriched. The studies showed that, for the most part, social influence on perceptions of job characteristics and job satisfaction provided by the opinions expressed by others was stronger than the actual characteristics of the jobs themselves. And it was not just peers but managers, too, who could influence the evaluation of job environments. An influential field study of actual job changes and managerial informational influence interventions reported that both informational influence and job redesign affected employee perceptions of job attributes, job attitudes, and even productivity. That study and others suggested that intentional managerial interventions directed at changing job perceptions, not just the beliefs and comments of coworkers, could be used to affect employees’ perceptions of and reactions to their work environment.

SIP theory was also important and has been influential over time because many of its fundamental ideas linked naturally to other emerging themes in management research. SIP theory was, at its core, an argument about the importance of the environment in affecting people’s perceptions and choices. In that sense, the theory nicely tapped into the growing
influence of situationism and the social psychological idea that situations, including the information conveyed and primed by situations, matter in affecting people’s behavior. Recently, for instance, research has found that people are more likely to vote in favor of school bonds when they cast their vote in a school compared with, for instance, a church basement, or another public building that is not a school.

As another example, the theory’s main argument concerned the importance of social influence on perceptions, attitudes, and decisions. The development and increasing importance of network ideas and methods made the investigation of how influence traveled through structures of interactions empirically more rigorous and demonstrated network influences on behavior and attitudes. And network imagery was quite consistent with the idea of social influences on behavior.

The theory’s emphasis on the social construction of attitudes and judgments and the role of management in structuring perception formed a natural precursor to the importance of the symbolic and meaning-creating functions of leadership and to the argument that, to use Louis Pondy’s apt phrase, leadership was essentially a “language game.” That one of the critical functions of leadership is to influence how people make sense of their activities and see the organizational environment has now come to be almost taken for granted and is a natural outgrowth of SIP’s emphasis on management’s role as a creator of the perceived environment.

It is important to note that SIP theory does not maintain that the objective conditions of job and work have no influence. Rather, the theory argues that reality is filtered through and affected by the influence of others and by the person’s own past behaviors and commitments.

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See also Management Symbolism and Symbolic Action; Self-Fulfilling Prophecy; Sensemaking; Social Construction Theory; Social Network Analysis

Further Readings


**SOCIAL MOVEMENTS**

Social movement theory considers how challengers to the status quo mobilize collective action supporting change and examines the conditions in which these bottom-up efforts are likely to be successful. Management often finds itself confronted by challengers—actors with competing, conflicting agendas who seek to compel reform. These actors exercise influence by coalescing into groups that take collective action to influence managers to amend contested practices or policies. We refer to those organized, purposeful attempts at reform as social movements. A new vein of research has focused on the role of social movements in instigating organizational change. This research contends that movements, although often small in size, are capable of generating significant influence and are an important source of innovation in industries and organizations. This entry looks at the various forms that movements take and assesses their potential for creating organizational change.
Corporate management is naturally inclined to resist change and maintain the status quo for number of reasons. Organizations are designed to be stable and self-reproducing. As their guardians, managers are sensitive to the uncertainty and cost of change, which tends to make them cautious and conservative when considering radical reforms. Cognitive constraints and political alliances within the organization can also make managers politically vested in the status quo.

In contravention to organization’s static tendencies, social movements form when actors share a common vision of the future that is in some way directly opposed to the status quo. Reasons for pushing reform include seeking to implement innovative products or organizational forms, changing companies’ employment practices, or altering top management’s philosophy or governance policies. These movements may take several forms. Employee-led movements manifest through a steady process of coalition building among employees and managers around particular issues. Movements mobilized by external stakeholders, on the other hand, are typically more disruptive and oppositional. For example, anticorporate campaigns often use coercive tactics such as boycotts or protests to force their organizational targets to reform.

Different types of movements face different opportunities and challenges. Employee-led movements are most likely to produce innovative reform when they work within existing channels and develop favor with elite allies in top management. Because of their internal positioning, these movements can draw on their knowledge of organizational rules and procedures to foster political advantages and build support for emerging coalitions. However, employee movements may be somewhat constrained to push for radical reforms because their members naturally depend on management for their jobs, which may limit their ability to take risky actions. Moreover, employee activists experience an identity trade-off, being both reformers and caretakers of the organizations. Thus, employee-led movements may be unwilling to voice their concerns in the public sphere, where their actions could harm the organization’s reputation. These constraints could pose higher costs on employee-led movements, which may deradicalize them and make their proposed reforms less innovative.

In contrast, movements led by external stakeholders do not suffer the same constraints on behavior or tactics. Outsider movements are free to use subversive tactics, such as street demonstrations or lawsuits, that create negative media attention for the firm. These disruptive practices potentially stigmatize the firm and hurt its reputation. As public support builds and more media attention focuses on the movement, the movement leverages its influence, and firms may feel pressured to adopt reformative practices against their will. Past research shows that firms suffering from previous reputation declines, even those due to completely unrelated reasons, are the most vulnerable to activist pressure because they are already concerned about their faltering public image.

Although externally led movements may be better equipped to leverage their influence by escalating their claims to the public sphere, they also face their own challenges. First, because external activists have no formal affiliation with a firm, management may assume that they do not have the best interests of the firm at heart and, therefore, be more reticent to listen to them. Also, these movements depend on the media to notice and give air to their grievances. If the media are preoccupied with other events, they should have weaker influence. Similarly, firms facing external activist pressure may symbolically concede to the movement without actually implementing internal changes. If not followed up with accountability mechanisms, promises to reform may be hollow. Because of their lack of access to the organization’s day-to-day operations, external movements may be incapable of monitoring the firm’s substantive response to their demands. Thus, external movements may be more effective when they simultaneously develop allies within the firm that share their vision of reform.

While managers may be tempted to ignore or quash movements targeting their organizations, failure to be receptive to activists’ demands can sometimes be detrimental to a firm. Failing to heed changing social expectations about corporate action can lead to market risks, as entrepreneurs may use a movement’s claims to create new, innovative competitors. Frustrated movements may also go over managements’ head by targeting the state or international trade associations to encourage the adoption of new regulations. Firms forced to change because of new competitors or regulations may experience higher costs than they would have paid by initially
complying with the movement. Additionally, firms that refuse to change contested practices could find themselves chronically targeted, which could have negative financial consequences. One recent study showed that a firm targeted by a single protest event could experience a 0.4% to 1% decline in stock price.

And finally, although movement reform efforts may seem threatening and disruptive to managers, research suggests there are good reasons for managers to engage with them. Entrepreneurial leaders may use movements to overcome natural inertia and introduce otherwise risky practices, especially when there is growing internal support for reform. Movements’ claims also could be construed as bellwethers of shifting consumer values, which signal growing demand for new products, new marketing opportunities, or burgeoning niche markets. Newly contested social issues indicate changing social expectations, which could aid firm leaders in creating appealing corporate social responsibility platforms to provide their organization with a valuable reputational advantage. Thus, movement threats can unearth new opportunities and sources of value for savvy managers who are willing to think outside the box and embrace innovative practices.

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See also Analytical and Sociological Paradigms; Business Policy and Corporate Strategy; Corporate Social Responsibility; Institutional Theory; Patterns of Political Behavior; Process Theories of Change; Social Entrepreneurship; Strategies for Change

Further Readings


Social Network Theory

Social network theory is an interdisciplinary approach to understanding social phenomena based on the relationships between actors and the patterns of connectivity and cleavage those relationships create when taken as a whole. Two characteristics of organizations that make the social network perspective particularly relevant to management theory are that (1) organizations generally exist for the express purpose of establishing interaction and exchange with other entities, whether that exchange is economic (e.g., corporations), social influence (e.g., nongovernmental organizations), humanitarian (e.g., charities), or another currency, and (2) they do so by bounding and coordinating the interactions of multiple individuals to achieve ends not achievable separately. Within the realm of organization and management theory, social network research animates several streams of fruitful research. This entry first summarizes the fundamental characteristics of social network theory and the major streams of research in this domain before considering some of the unique challenges of conducting research in this tradition. It then delineates several substantive contributions social network theory has made to organization theory more broadly by identifying insights common to those streams of research. Finally, a short bibliography of articles and books is provided representative of social network research within the domain of management and organization management.

Fundamentals

The fundamental difference between the social network perspective and most other approaches to management research is social network theory’s dual assertions that relationships matter and structure matters. Relationships matter because they provide individual actors (people, teams, organizations, etc.) with channels through which social interactions and exchanges occur. Structure matters because the particular arrangement of those relationships creates opportunities and constraints not only for actors occupying specific positions in the network but also for the network as a whole and for different regions within the network.

Social networks comprise a set of actors and the collection of ties among those actors. Generally,
a single type of tie (e.g., friendship, advice, sales) reflects one network, but research often considers multiple networks (relationships) at the same time. Theories concern outcomes for the actors themselves as individuals (What are the consequences of having many ties?), outcomes for each pair of actors (Does having a friendship tie lead to creating a business tie?), for groups of actors within the network (Do departments with more internal trust ties perform better?), or for networks as a whole (Do companies with more social interaction outperform those with less?). In each example above, “actors” in the network were individual people, but research questions considered them individually, in pairs, in groups, or as a single collective, respectively. However, actors can also be collectives (e.g., teams, organizations), which can also be aggregated. For example, in a network where actors are organizations, they can be considered as a single collective making up an industry (e.g., Do industries with denser alliance networks adapt more or less quickly to exogenous shocks?).

While an exhaustive list of the prominent social network research related to management theory would likely require a volume of its own, a significant majority can be characterized as relating to one of three approaches: relatedness and topology, embeddedness, and egonet composition. A brief summary of each approach, with some characteristic findings, constructs, and operationalized variables follows.

Relatedness and topology. Although relatedness here refers to immediate connections of individual actors in the network and topology refers to the shape of the network when taken as a whole, they are typically considered simultaneously. However, the most basic approach is investigating the power of direct relationships among actors. Being connected or not connected creates both opportunities and constraints that impact the behaviors of organizations and the people they comprise. Organizationally relevant relationships run the gamut from physical proximity of individuals (closer proximity increases chances of information sharing) to board interlocks (companies who share board members exhibit similarities in certain governance behaviors) and a host of other relationships ranging from providing the potential for interaction (such as physical proximity or demographic similarity) through realized exchanges (such as the flows of personnel among companies in an industry).

Because individual connections form structural patterns (a social system), where a particular actor’s specific constellation of connections position it within the network as a whole also creates opportunities and constraints. Thus, although some work focuses on direct relationships (individuals with more ties within an organization have higher job satisfaction), considerable work assesses the structural implications of those connections (occupying a bridging position in the friendship network decreases job satisfaction). These types of analyses consider individual actors, subgroups, or the entire network. For example, within networks capturing personnel flows between organizational actors in two different regions (two networks), the variance in flows across the two regions offered insight into the relative success of each.

There are many different measures to assess relatedness in social networks. At the actor level, the most common and concise ways to measure these are through the concept of centrality. There are many measures of centrality but most operationalization of one of four constructs: (1) the number of direct or immediate connections the actor has (degree centrality), (2) the extent to which the actor is connected to other highly connected actors (e.g., eigenvector centrality and Bonacich power), (3) the extent to which the actor can reach other actors in the network (e.g., closeness centrality), and (4) the extent to which the actor is an intermediate between other actors in the network (e.g., “betweenness” centrality). There are group-level analogs to some of these, but density (the percentage of possible ties that actually exist) is commonly used to measure relatedness at the group and network level.

Although some of the centrality measures capture characteristics about the actor’s position in the global network structure (e.g., betweenness), other research focuses on the topologies of actors’ local networks. In an influential stream of work, Ron Burt has identified various advantages to being a broker by occupying what he terms a structural hole. Specifically, when a focal actor (called ego) is connected to two other actors (called alters) and those alters are not connected to each other, ego has comparatively more information, more control over that information, and more autonomy than if those alters are connected
to each other. Research links occupying structural holes to many positive outcomes for the individual. The primary constructs in this stream of research are operationalized as effective size (which is effectively degree centrality discounted to account for connections among ego’s alters) and constraint (which is the extent to which ties among ego’s alters constrain ego’s ability to pull out of the network). Although the structural holes perspective is perhaps the most influential stream of management based on network topology, other structural research (e.g., identifying abstracted social roles based on patterns of structural positions) has also made important contributions to management theory.

**Embeddedness.** While the structural hole perspective typically focuses on individual actors, another stream of research focused more on interorganizational network structures points to the value of embeddedness, though both approaches are used with individual and collective actors. Embeddedness holds that interactions and exchanges (particularly economic ones) generally happen within the context of (or are embedded in) a larger social context. Two implications of this are multiplexity and cohesiveness. Multiplexity means that exchange partners typically have multiple types of interactions; for example, economic transactions are accompanied by social interactions, which might influence the way they are handled. Cohesiveness refers to the tendency to establish new ties or strengthening existing ties within a defined community rather than establishing ties outside the community. By becoming embedded with each other in these ways, organizations reduce uncertainty, develop trust, and share information better, all of which lower transaction costs through decreased monitoring or surveillance and less formalized contracts. Thus, being embedded in a tighter-knit community creates normative pressures on behavior, enabling a form of network governance that simultaneously produces economic benefit for members of the community while limiting exploitation. In addition to density and the identification of these communities with cliques and clusters, embeddedness is also operationalized through tie strength (assessing the number of transactions or degree of trust rather than just the presence or absence of a relationship) and multiplexity (the number of different types of ties between any two actors).

**Egonet composition.** While the work above focuses on the relationships and their aggregated structure, social network theory recognizes that actors also bring specific characteristics with them and these characteristics interact with and may influence or be influenced by patterns of ties. For example, research repeatedly shows friendship ties are more prevalent within than between specific demographic categories (e.g., gender, ethnicities) across various settings. This phenomenon, homophily, accounts for the selection of new ties based on existing similarity. The mechanism can also work in the opposite direction through influence, as when adopting attitudes or technologies similar to one’s existing alters. In either direction, the construct is typically modeled using tools testing for autocorrelation (e.g., Moran’s I) or adoption and other changes in state (e.g., logistic regressions and survival analyses).

When autocorrelation is the result of influence, the network ties are conceived of as pipes through which influence flows from alters to the ego. This metaphor animates much research in this category where an actor’s (or ego’s) ties serve as a channel through which ego accesses its alters’ tangible and intangible resources. In addition to adopting the same technologies as an alter, ego can also procure money, gain the benefits of experiences, or borrow the status of its alters. Thus, ego can be characterized based on the attributes available through its alters, at least in part. Thus, an entrepreneur whose alters have a combined $100,000 in capital available for investment can be distinguished from one whose alters have $5,000 available. Research on egonet composition adopts this perspective and ascribes ego attributes based the aggregation or distribution of its alters’ attributes, including aggregations of quantitative data (e.g., sums or averages) as well as measures of qualitative variance (e.g., heterogeneity).

**Importance**

In addition to the specific theoretical contributions outlined above, social network theory has made other very important contributions to organization and management theory more broadly.

**Informal networks.** One contribution that cuts across the various theoretical approaches outlined above is the role it has played in solidifying the importance of informal networks in organizations,
and providing a rigorous methodology to represent them and analyze their impact. For example, in a frequently cited study, David Krackhardt demonstrates that a unionization attempt in a small high-tech company failed, at least in part because the union representative was very isolated in the informal (friendship) network, despite being central in more formal (reporting, advising) networks. In another highly cited study relating to topology, Rob Cross, Stephen Borgatti, and Andrew Parker found that although a virtual team was assembled within a large consulting organization, it did not act as a team because there were many structural holes in the informal information-sharing network, and one person brokered information between two informal groups that emerged among two distinct skill sets. These types of disconnects between the formal and informal networks frequently explain unexpected organizational outcomes. Yet in practice, such outcomes can often only be understood by understanding both types of networks.

**Perception and reality.** Although far from being the exclusive advocate, social network theory has nonetheless made substantial cross-cutting contributions to improving our understanding of the relative importance of perception in social systems. Network research in this area has shown that perception has clear effects, both for actors as the object of perception (e.g., individuals perceived to be friends with powerful people have a reputation for good performance) and as the perceiver (e.g., better perceiving the network is a source of power). Again, this work applies across the different approaches outlined above, and research is furthering our understanding of why, when, and how both perceived and actual networks impact behaviors and outcomes.

**Structure and agency.** A final contribution of social network research to organizational theory is in advancing the debate around structure and agency. Although social network theory derives largely from a structural perspective, it has long recognized the effects of individual differences in the creation of social structures. Perhaps the richest tradition here is around effects for gender across a range of theoretical insights (e.g., gender homophily has a long tradition, and Ron Burt’s work on structural holes found gender moderated the effects of occupying structural holes). More recently, Ajay Mehra and others have advanced the case for individual agency through work showing that other personality characteristics (e.g., self-monitoring) affect not only the positions individuals occupy in the network (e.g., high self-monitors occupy more structural holes) but that they occupy those different positions because of deliberate choices they make. Additionally, as far back as 1985, Mark Granovetter, perhaps best known for the “strength of weak ties” theory (which fits into the relatedness and topology category and relates to Ron Burt’s work on structural holes), suggested social network theory could navigate between the under- and oversocialized views of actors in social systems. Network research has made important contributions here by providing exemplars that disentangle systemic and structural influences from actors’ individualistic agency.

Finally, it is important to note that the three fundamental approaches listed above (and the specific theories they represent) and the three broader contributions represent a larger body of research that has improved our understanding of organizational phenomena and had practical impact for managers. In fact, social network theory has been applied by managers across many settings to improve a variety of organizational outcomes. For example, because of the work of Rob Cross, Steve Borgatti, and Andrew Parker mentioned above, the organization was able to implement structural and policy changes to successfully encourage more cohesion in the virtual group, as evident when evaluated 9 months later. Likewise, Ron Burt’s work on the moderating effect of gender on structural holes discussed above has led to practical implications for how senior managers should engage in different forms of networking when mentoring women and men. And David Krackhardt has demonstrated that there are real benefits for managers who are knowledgeable about their organizational networks. Consequently, managers who invest time in both assessing their networks and learning how to do so well have been able to increase their power in the organization. These three examples give just a sampling of the power of social network theory in use in organizations and management.

*Rich DeFordy*

*See also* Complexity Theory and Organizations; Innovation Diffusion; Interorganizational Networks; Resource Dependence Theory; Social Exchange Theory; Structuration Theory
Further Readings


SOCIAL POWER, BASES OF

Power is an essential element in any managerial theory that attempts to account for the dynamics of behavior in organizations. A widely held notion is that leadership is inextricably related to the concept of power. Indeed, leadership is the exercise of power, and power is the “reason” why subordinates comply with their manager’s directives. Hence, it is critical for managers to understand the bases of power available and how to acquire and use them effectively. The longest-standing theory on the bases of social power was developed by John French and Bertam Raven and published in 1959. They defined five bases of power—referent, expert, legitimate, reward, and coercive. This entry explains the fundamentals of the model, provides definitions of the bases of social power, and reviews how the theory and research have evolved over the last half century.

Fundamentals

To begin, we must note that power has played a central, important, and ubiquitous role in the study of social phenomena. That some people in organizations have more power than others is obvious, and it is also clear that power can be used in many ways—some positive and some negative. Mention the word *power* and people have very different reactions to it. For some, power conjures up images of negative leaders, such as Adolf Hitler or Muammar Gaddafi, or a boss who has belittled them. Others think of positive leaders such as John F. Kennedy, Gandhi, Martin Luther King Jr., or a boss whom they really respected. This range of reactions makes the point that power in and of itself is neither bad nor good. How it is used can be for bad or good, but power is simply the capacity one person has to influence another individual, group, or organizational entity. It is also possible for individuals to use their power to make other people more powerful (stronger, more influential). Oddly enough, it is the lack of power or a feeling of powerlessness, rather than power itself, that may be more harmful to organizational productivity, employee morale, and managerial effectiveness.

Every management textbook devotes attention to the topic of power, because it is critical for managers who want to be effective to understand how to gain and use power. It is also important to understand the reactions of people when power is being used by others toward them. For example, when managers use their power, the response from others can vary from compliance to a calculative response (what can one get in return for following the manager?), or it can be a positive, emotional response that results in high levels of commitment to the task. Clearly, managers need to understand how power can be used to achieve the response they want from their direct reports, their colleagues, and others in the organization (even their own managers). As Jeffery Pfeffer notes in his 1992 book, *Managing With Power*, managers need the skills to get things
done as much as the skills to determine what needs to be done, and bases of power are essential skills for getting things done.

Succinctly put, *leadership* is the process of influencing the behavior of others, presumably toward the achievement of organizational goals. For influence attempts to have an impact, a person must have the *capacity* to influence others. Without some reason for people to be influenced by an individual, influence attempts will fail. *Power* is the resource behind the leader’s attempt that makes influence possible. Without power, people cannot lead. While there have been many frameworks of power offered by various scholars, the most widely accepted, still today, is the framework of bases of social power developed by French and Raven in 1959. Most every management textbook includes their theory, in which they defined social power as the *potential* influence one person can have to change the actions or beliefs of another person. The social power bases they conceptualized define the capacity one person can draw on to influence another person.

In their original article, French and Raven proposed five conceptually different bases of social power that are socially dependent on continued interaction between two people. They defined two personal sources of power (*referent* and *expert*) developed by the person and three based in one’s position that is granted by the organization (*legitimate*, *reward*, and *coercive*). The other variable that French and Raven used to distinguish the bases of power was whether surveillance of the influencee was an important factor for the power base to have impact. They felt that surveillance was important for coercion and reward power but unimportant for legitimate, expert, and referent power. In other words, the influencer does not have to be watching the influencee for these power bases to result in successful influence. Let us now define the five bases of social power.

**Referent power** is a personal source of power that derives from the admiration, respect, and identification one person feels for another. A person can develop a reputation for integrity, have a personal attractiveness, or exhibit charisma that makes others want to follow him or her voluntarily. For example, when subordinates see managers with referent power, they are drawn to them and want to follow. To develop referent power, a person must behave with integrity on the job and demonstrate respect for others. For example, President John Kennedy did not oversee passage of nearly as much legislation as did his successor, Lyndon Johnson, but he was far more revered and admired because of his leadership in times of crisis. It was less his technical ability on the job and more that he had that “something” to which others were drawn. He exuded a great deal of confidence that many people admired and respected, and this referent power allowed him to have significant influence with his cabinet and with the public.

**Expert power** is another personal source of power that derives from a person’s abilities, skills, and talents. For example, people gain expert power by education, training, and performing well in key aspects of their job. Perhaps someone is especially good with numbers and analysis. As this fact becomes known to others, this person can influence others in math-related matters. Expert power is normally limited in range to specific areas of the job, whereas referent power is wide in scope. For example, a master programmer may have a great deal of expert power in the design of new software, to which others will yield when this person offers ideas. However, if the issue switches to a focus on marketing of new software, this person will have less expert power from which to draw. Normally, for expert power to develop, a person must exhibit greater expertise than others over time.

It is important to note that both referent and expert power are earned by the person through direct or indirect experience with others. People learn to admire and respect a person through interaction. They also come to recognize a person’s expert power through interactions related to the expertise on a particular type of work. The point here is that “personal power” is earned over time and essentially granted by others. Hence, it is possible for people to lose these types of power. For example, if a manager does something morally wrong, it may damage his or her referent power, and if a manager offers expert advice that proves to be wrong, the manager may lose some or all of his or her expert power.

**Legitimate power** is a positional (as opposed to personal) source of power granted to a person usually via their hierarchical position in an organization. It is based on the perception that a person has the legitimate right to influence the behavior of others because of the person’s position in the organization.
Thus, legitimate power is the purest form of position power. For example, it is normally recognized that an Army drill sergeant has the “right” to tell a trainee what to do and the trainee has an obligation to obey the sergeant. Since legitimate power is grounded in the hierarchy of an organization, it will grow as a person moves up the organizational hierarchy. A captain in the Army has more legitimate power than a sergeant. And if a person is demoted in an organization, his or her legitimate power will decrease. In addition, legitimate power has a zone of influence associated with it. As long as people remain in that zone, their legitimate power remains the same, but it can decrease if they move out of the area. For example, a manager may have the legitimate power to require employees to work overtime, but the manager may not have the power to require employees to use the company’s products. For example, some people who work for Honda drive Fords, and vice versa.

Reward power is another position source of power based in the ability the person has to reward others for desired behaviors. For example, if a manager is granted control over the pay and performance evaluation of others, subordinates will be inclined to do what their manager wants in order to receive these rewards. This is a calculative or “contractual” relationship. If the subordinate does certain things desired by the manager, the subordinate can receive rewards from the manager. However, the reward must be valued by the subordinate if it is to be useful in influencing his or her behavior. And if the company encounters a period when these desired rewards are not available, the manager loses some of this reward power that is granted by the organization. In such times, it is still possible for a manager to use nonmonetary rewards, such as praise of good work as a substitute for monetary rewards.

Coercive power is another position-related source of power that is essentially the opposite of reward power. It is based in the ability of a person to punish others for not doing what the person wants done. For example, if a manager can withhold granting organizational resources (such as pay, promotion, discretionary time off, and the like), their subordinates will be inclined not to do things that would result in the manager using this coercive power. It is important to note that coercive power is often most useful in stopping an undesired behavior, and it can lead to unintended consequences, such as resentment. Also, once the undesired behavior is stopped, it may be necessary to use reward power to promote desired behaviors. And oddly enough, sometimes the punishment can actually work as a reward. For example, suppose a manager reprimands an employee’s behavior and the employee views it as “at least I got some attention from my manager.” The result may be continuation of the undesired behavior. Hence, coercive power must be used with caution and not used too often, lest it lose its value.

A sixth base of power that was originally debated by French and Raven has at times made its way into the literature on social power. Information power is conceptually different from the other five in that it is “socially independent,” meaning that it could be maintained without continued interaction. Some have combined it with expert power. Information power derives from the person providing information so compelling that it can lead others to change their behaviors. This form of power is essentially persuasion, and it is transitory—that is, it can move from one person to the other and create a motivation to change in the person being influenced. For example, in the empowerment literature, providing information to people is suggested as one of the things a manager can do that will create the intrinsic motivation in others to act in a more empowered fashion, using their knowledge, experience, and motivation to take responsibility for problem solving and making decisions. For example, if employees understand that the company is in financial trouble, they may be more likely to suggest ideas that can either generate more revenue or reduce costs. Unlike the other power bases, information power can and does move from one person to another rather easily.

Evolution
As explained in a 2008 article by Steven Elias in the Journal of Management History, French and Raven’s theory of bases of social power began its evolution at the University of Michigan’s Research Center for Group Dynamics in the late 1950s. The topic of social power in work organizations was a hot topic at the time, but there was no widely accepted theoretical model. There was a great deal of discussion about bases of power other than position power—that is, legitimate power—that were also socially dependent, and the issue of whether surveillance was important or not helped frame elaboration of the
six bases of social power defined above. While there have been other attempts to create a model of social power in workplaces, they are typically still rooted in the French and Raven model, which explains why it has continued to be viewed as the most useful of the frameworks.

The initial framework of the five bases of social power (leaving aside information power) has, itself, been expanded, refined, and included in a power/interaction model developed by Raven and his colleagues at UCLA in 1992. At one point, the number of bases of social power grew to 14 through refinement of the original list, but time and time again, the number used in research and reported in textbooks has reverted to the original five bases of referent, expert, legitimate, reward, and coercive.

The most significant extension of the five bases framework has been the development of the power/interaction model by Raven. It places the social power bases in the context of leadership actions—that is, how one attempts to influence the behavior and beliefs of others. It moves the discussion beyond the capacity to influence another person to actually making the effort to influence another. There are five steps to this framework:

1. The influencer must determine the motivation to influence—that is, why does he or she want to influence the other person? Is it to attain a goal, to satisfy internal needs, to satisfy role requirements, to motivate the influencee, or to attain desired status?

2. Next, the influencer must assess which power bases are available to the influencer in relation to the target person of influence, plus power preferences and inhibitions. For example, does the influencer have expert or referent power available to use? Does he or she have legitimate, reward, or coercive power available to use? The influencer must also assess the likelihood of success using the various power bases available.

3. Next, the influencer must prepare for the influence attempt by setting the stage, enhancing the power bases so the influencee knows they might be used, and thus preparing the influencee to be influenced.

4. Next, is the actual action step wherein the influencer uses the chosen power bases in the method of choice to make an influence attempt.

5. Finally, the effects of the influence attempt can be addressed. Did the attempt result in the desired outcomes or not? Was the outcome positive or negative? What was the impact on other power bases not used, and were there any side effects?

This framework can be useful in extending beyond just a look at what power bases a person may have. For example, to successfully use power, a manager must not only assess what power bases he or she has but must also decide what power bases to use and develop a strategy for using them. Then it remains to be seen what impact transpires, and the model can be iterative in nature as the manager recycles through it in a relational basis with his or her subordinates.

**Importance**

Prior to the mid 1980s, efforts to assess the utility of the French and Raven taxonomy were limited, at best. The many methodological problems in published studies made interpretation of findings difficult. Philip M. Podsakoff and C. A. Schreisheim in 1985 published a review of various field studies of the framework in *Psychological Bulletin*. They offered a number of suggestions for improving future research on the model. In 1989, Timothy Hinkin and Schreisheim developed a measure of the power bases. Then in 1998, Raven, along with Joseph Schwarzwald and Meni Koslowsky, published another instrument in the *Journal of Applied Social Psychology*, called the Interpersonal Power Inventory (IPI). The IPI measures 11 bases of power, the original five, plus information power and refinements of reward, coercive, and legitimate power bases. Their research found that these 11 bases of power clustered together in seven factors, which only added confusion around the instrument. Neither of these measures has achieved traction in the literature. Scholars, including Raven, himself in 2008, are still calling for better measures of the French and Raven taxonomy.

Nevertheless, the continuing interest in understanding power, as applied especially to current leadership models, compels researchers to explore the underpinnings of the original French and Raven taxonomy. Using a variety of methodologies, efforts are ongoing to develop more robust instruments, as well as expanding investigations across cultures and linking power to important leadership issues. For
example, a study by Mainuddin Afzlan 2005, reports similar findings in India to U.S. studies in that use of power bases is related to employee commitment, satisfaction, intention to leave, and compliance. Another study in R & D departments by Li-Fen Liao in 2008 found a relationship between use of power bases and knowledge sharing. A multi-organizational study by W. Alan Randolph and Edward Kemery in 2011 found that managerial use of power bases (as perceived by employees) fully mediated the relationship between manager empowerment practices and employee perceptions of psychological empowerment.

Interest in the French and Raven taxonomy of social bases of power remains strong. Researchers continue to add new knowledge, even while working to develop a measure that can gain traction in the literature. The model also continues to find appeal in management textbooks because it offers practical insight for managers in learning ways to enhance their influence effectiveness.

To have influence, managers must acquire and use their bases of social power. Clearly, legitimate, reward, and coercive power are granted by the organization. Hence, managers must work to achieve positions that offer these sources of power. On the other hand, referent and expert power are sources that managers can develop on their own. Once acquired, the bases of social power can be used to gain influence. Managerial practice suggests that it may be best to rely more on the personal sources of power (referent and expert) rather than the position sources (legitimate, reward, and coercive) if the desired outcome is a positive emotional response from one’s followers. Finally, let us not forget that influence can be bidirectional. People at lower levels of an organization can also acquire and use bases of power, especially the personal ones.

W. Alan Randolph

See also Empowerment; Leader–Member Exchange Theory; Leadership Practices; Needs Hierarchy; Organizational Culture and Effectiveness; Situational Theory of Leadership; Theory X and Theory Y; Work Team Effectiveness

Further Readings


**Sociotechnical Theory**

Sociotechnical theory is a term often used to describe the complex interplay between people and technology, in which neither the social (people, relationships, structure, etc.) nor technology (devices, process, materials, etc.) can be considered in isolation if performance is to be optimized. This term, also referred to as sociotechnical systems and sociotechnical design, has had far-reaching influence on management principles and theories, by incorporating principles of self-management and empowerment in management techniques and organizational change initiatives. It has also greatly impacted how the innovation process is managed and how product design is carried out. In providing a brief description of this concept, this entry first covers some of the fundamental aspects and considerations, including a further explanation of its principles. This is followed by a brief synopsis of its evolution in management thought and its importance to the field.
**Fundamentals**

As implied by its name, sociotechnical theory is concerned with the interaction of the social and technical aspects of a system, as well as the interaction between these and the environment. These two components, the interaction of the social and the technical and the influence of the environment on these social and technical aspects, make up essential elements of the theory. The theory is explicit in that the term *technical* is not limited to the specification of devices or machines but, rather, is a much broader term used to describe work processes and material flows as well as equipment. Similarly, the term *social* describes not only the implications for how a device, machine, or work flow impacts an individual but also how it affects the whole set of skills, knowledge, attitudes, social relationships, and network of connections and interactions between individuals and groups within the organization. *Social* in this sense denotes worker relationships related to task functioning and interdependence and not friendships per se. Additionally, the term *social* comprises individuals and groups at all levels of the organization and encompasses reward systems and authority structures, which are naturally a prime concern to managers.

Sociotechnical theory is grounded in the realization that the characteristics of a device, machine, or work flow have implications for how employees conduct their work, how they view the work itself and their role in the work organization, and how employees relate to each other both professionally and socially. In this way, a particular technology is not considered simply as a piece of equipment that workers must be trained to use, but rather, the equipment is considered in terms of its implications for the pattern of social relationships impacted by the equipment’s introduction into the system. For example, considering the case of electronic mail being introduced into a work organization, the e-mail software is not considered merely in terms of how employees must be trained to use the software and policies for how e-mail is to be used but also, more important, how the introduction of e-mail might alter the social relationships and networks among employees and their pattern of interaction. Some possible considerations might include how people might communicate differently and if their relationships might be as effective as the traditional face-to-face type of interactions. E-mail lacks immediate feedback and does not provide for nonverbal cues such as gestures or the tone of one's voice, and these are important aspects of communication that might be lost with the introduction and reliance on e-mail in an organization. This could lead to greater misunderstandings, frustration, lower satisfaction, and the like, which may be made worse when e-mail is used as a primary communication mode. Hence, sociotechnical theory would be concerned not just with how to change work flows by using e-mail, but also with how it changes the social fabric and overall effectiveness of the work unit.

Sociotechnical theory is based on the premise of joint optimization between social and technical considerations rather than emphasizing one over the other. Optimization is achieved by explicitly considering the interactions between social and technical aspects and determining how these two subsystems or considerations can best be maximized together. The theory’s main emphasis, then, is that it is not enough to merely consider introducing a piece of equipment and adapting people to fit how the equipment operates, without also considering how the equipment and its requirements might disrupt the interactions between employees and their view of their work and the organization. The theory stresses that maximum performance in any work flow, process, or from the use of machinery or a device can be achieved only if the intricate interdependence and interaction between social and technical aspects are jointly considered.

A second main component of sociotechnical theory considers the interdependence and interaction of social and technical aspects with the environment. The theory proposes that any sociotechnical work system is inherently embedded within its environment, which requires continual adaption and reaction to changing external influences. Even in relatively stable surroundings, environmental changes evolve and occur that impact both the social and technical aspects of the work system, requiring continual adaptation by both. In a business, advances in product design by competitors, or evolving consumer preferences for the use of products, alter the internal processes of a business as well as product design characteristics. As a result, managers therefore need to pay special attention to the interface between internal and external conditions and how one might influence the other. This has led to greater importance being placed on boundary-spanning...
roles, in which individuals carefully account for fluctuations between the internal and external conditions and strive to reconcile changes that need to occur to restore balance in the overall system.

This coupling of social and technical aspects, and the embedded nature of these considerations within the overall environment, has led management practices and theories to evolve in the form of direct participation by workers. Most notably perhaps, these have occurred in the form of self-managed work teams and employee participation in innovation processes. In these approaches, management gives employees greater responsibility and discretion for completing work projects and empowers them to make choices about the products and processes without necessarily seeking managerial approval. In effect, managers give employees greater decision-making authority and place greater reliance on their judgment. In many instances, employees may run their department or portion of the business as if they own it, planning and measuring the impacts of their decisions for maximum performance and profitability. The rationale behind this is that employees who are intricately involved in their product or process on a day-to-day basis are best suited to understand what changes need to be made for maximum efficiency and effectiveness. Moreover, their intricate and personal involvement with both internal and external constituents and customers places them in a particularly advantageous vantage point for gathering this information and for realizing the implications for how changes in one aspect might impact elsewhere in the processes or system. In part, this has led to the worldwide proliferation of self-managed teams; this form of structuring in an organization allows for continual adaption and adjustment and for mutual accommodations to be made as one aspect of team functioning influences another.

An important aspect of sociotechnical theory, often referred to as minimum crucial specification, suggests that managers provide direction to employees about only essential aspects of their jobs or projects rather than about things that are not critical. In other words, managers should direct employees only in the things that are necessary and then only to the degree that is needed rather than overspecifying and therefore constraining the worker’s innovation and creativity to make the process more efficient and effective. Overspecifying may squelch employee innovation and insights, which is undesirable because it often provides unique and valued improvements. This aspect then differentiates what should be done, from how it should be done. Managers can and should generally be precise in specifying what should be accomplished, yet specifying exactly how it should be accomplished is often unnecessary. As noted by Albert Cherns in 1987, in most organizations there is “far too much specificity” about how work should be accomplished, and employees often contrive to accomplish their job despite the detailed rules and procedures.

From a job design standpoint, sociotechnical theory’s emphasis that jobs and processes ought to rely on worker insights and initiative implies that this autonomy in these jobs is inherently more motivating and satisfying. Since individuals are given greater discretion and control to carry out responsibilities as they see fit to best accomplish work objectives, their greater sense of freedom and control enhances the motivation they feel and the likely energy they devote to work activities. By specifying only the minimum required rather than micromanaging, managers empower employees and therefore tap internal psychological processes that are self-motivating and internally driven. Employees therefore work and devote energy to solving work problems because they want to rather than because they were told to do so. In this way, employees are viewed as important resources for improving the effectiveness and efficiency of the organization. Moreover, the autonomy and self-control instill a sense of ownership of the product and processes within the individual, thereby generating a willingness to persevere despite any setbacks that may occur and a sense of commitment to the job and organization.

**Evolution**

Sociotechnical theory was originally developed in the 1950s by a group of researchers at the Tavistock Institute in London. Although it has evolved since this early period, the seminal work in this area is an article published in 1951 by Eric Trist and Ken Bamforth titled “Some social and Psychological Consequences of the Longwall Method of Coal-Getting.” This article is a case study on a coal mining operation, in which the production of coal was mechanized and “mass production” techniques were instituted in the expectation that productivity in the
form of coal harvesting would increase. Miners were distributed into specialized shifts: cutting the coal in the first shift, shoveling the coal onto a new conveyor in the second shift, and constructing gateways and roof supports in the third shift. Miners were spread out beside a long wall in the mine, each shift conducting the one task. At the time, this was thought to be more efficient than smaller groups of miners in each shift who conducted each of the three tasks among their group and independently allocated the tasks among their own group members. In the new “mass production” techniques with specialized shifts, miners experienced less variety in their work and challenge in their job, and as a result morale decreased and productivity fell as well.

In brief, what the researchers concluded was that although a technological change (such as introducing mass production techniques) appears quite rational when considered from an engineering viewpoint, it is based on only a limited view of the production system that ignores the workers needs in the social system and thus may actually reduce the benefits that had been expected from the new technology. The researcher’s insight of the interdependent nature of technical and social systems led to the term sociotechnical systems.

Sociotechnical theory evolved in direct contrast to Frederick Taylor’s concept of scientific management, which was dominant at the time. In this approach, “mass production” techniques were implemented and people were adapted to fit the technology. Notably in production or assembly lines, people were organized to fit the design and capabilities of the machines and the work flow rather than accounting for people and how workers experience their work. According to Taylor’s principles of scientific management, specialized jobs on an assembly line were more efficient and could raise production and although they were repetitive and monotonous tasks that provided little job variety or intrinsic value for the worker, workers would conduct their work with appropriate inducements such as money and other rewards. In contrast, sociotechnical theory introduced the idea that maximum production can be achieved only by considering the interplay between the technology and the people who work with the technology.

Since the early days of sociotechnical theory, many tests and some refinements of the theory have been offered. A review of the literature reveals literally thousands of studies and articles published on the topic up to the present day. These have been carried out by leading scholars and thinkers in the field, such as Cherns, Fred Emery, Louis Davis, Albert Rice, Philip Herbst, H. F. Kolodny, Enid Mumford, William Pasmore, and others. The main emphasis has been on developing effective ways to apply the concepts of sociotechnical theory to work organizations. Along these lines, Emery and others have written numerous elaborations on how the theory can be applied to business organizations, detailing the “nine-step model” for implementing sociotechnical principles. A challenge has been implementing sociotechnical concepts in the workplace, principally on turning control and power over to workers rather than maintaining it with managers. Although implemented on a widespread basis in concept, moving beyond title and name changes to the actual self-management in teams and structure has at times proved difficult to achieve.

The main emphasis of these elaborations of sociotechnical theory involves meaningful participation in decision making and design. The democratic design principle, as it has been called, involves assigning responsibility for control and coordination of work to be placed with the employees who actually conduct the job tasks. Rather than more bureaucratic approaches whereby managerial control is centralized and vested in hierarchy, participative design involves truly empowering employees to make decisions over the work assigned to them. Such delegation and empowerment can come with significant risk for the manager, and this had led to some managerial reluctance to enact sociotechnical principles. According to the sociotechnical perspective, empowering employees and teams to make their own decisions, and having managers truly serve as coaches and facilitators, involves removing hierarchy as well as centralized power and control that have been a premise of managerial thinking. Such changes are no doubt difficult to make.

An additional outgrowth of sociotechnical theory has been the evolution of learning organizations and the popularization of self-discovery. Grounded in the view that workers are best able to make decisions about their work, the learning organization is viewed as one in which workers are best able to respond to changing and turbulent external environmental conditions. The constant adaptation and alignment to changing environmental conditions
Sociotechnical Theory is facilitated by employees who understand their jobs and are able to make informed decisions over how best to conduct and adapt their work to meet organizational objectives. The rapid and turbulent nature of environmental changes that occur in business places new emphasis on this approach and on the need to have workers make autonomous decisions about how best to conduct their work in order to adapt process and product designs.

**Importance**

The influence of sociotechnical theory has been far-reaching. Sociotechnical theory's coupling of social and technical aspects and the need to optimize both to achieve maximum performance, including the embedded nature of these within the environment, has had dramatic impacts on management practices and product design approaches. Perhaps most important, it has centered attention on the important role that people play in implementing new processes or using new devices.

From a product design standpoint, rather than considering how technology can be best designed in isolation, true performance according to sociotechnical theory depends on how people might use the technology and the overall implications of how the technology is used for the organization and social system. In other words, simply because a technology has an elegant design does not mean it will be used as intended, nor does it mean that all the ramifications of using the technology can possibly be anticipated by the product's designers. As a result, managers and product designers must consider the many potential implications (both people and technology related) of how the technology might change the behaviors of those individuals who use the new product or technology. As one example, consider the texting ability of cell phones today. While originally conceptualized as a quick means to convey brief and truncated messages, it is today used by some as a substitute for voice communication. Moreover, the texting ability of cell phones has been implicated in many traffic fatalities caused by accidents whereby drivers were distracted by texting. As a result, many states have now begun to implement laws forbidding texting while driving. As this texting example illustrates, there are many implications of how technology is used that impact behaviors and the social system that are encompassed within sociotechnical theory.

Another commonly acknowledged outcome of sociotechnical theory concerns the widespread implementation of self-managed teams to conduct work, as well as other management practices that embody autonomy and internal self-regulation. Self-managed teams, because they operate at the level where social and technical changes occur in real time, can more easily react and make modifications than more senior management who are further removed in time and space. In this way, with the acknowledgment of the dynamic interplay between teams and technology came the realization that small autonomous units are best able to adapt to changing conditions, leading to improved responsiveness and performance. Self-managed teams proliferated as a result, with many industries, organizations, and departmental units adopting this way of organizing in an effort to improve efficiency and competitiveness. Self-managed teams today are a fundamental way of organizing that have been implemented in myriad applications, from professional level employees to hourly workers on factory floors to customer-centric organizations around the world.

The implications of sociotechnical theory can also be seen in new forms of organizing and working, such as telework, telecommuting, virtual teams, social networking, wikis, distance or e-learning, and many other innovations. In each of these, people interact with and through technology, which has profound implications for the way in which they are able to work together and for the nature of the jobs and tasks undertaken. For example, teleworkers or telecommuters who work from home several days per week instead of at the office may have different relationships with coworkers and supervisors than if they worked in the office full-time. It may be that a greater reliance on e-mail and phone calls and the absence of face-to-face interactions affects how coworkers view them or how strong their relationships are with coworkers and supervisors. Moreover, research shows that electronic communication is less rich in social cues and hampers the ability to interpret others when the topic is complex or socially sensitive. These considerations in-turn have important implications for their ability to collaborate on projects and produce group products.

As these examples illustrate, the implications of sociotechnical theory been widespread and have important implications for managers in their efforts to maintain and improve individual and
organizational performance. The implementation of sociotechnical techniques have led to more rewarding and fulfilling jobs for employees, enhanced product quality and efficiency, and reduced absenteeism and turnover. Sociotechnical concepts have been used to design factory production floors, structure organizations, initiate team-based management initiatives, and design new devices and software systems. Management concepts that have their roots in sociotechnical theory include job enlargement, job enrichment, empowerment, autonomous groups, and team-based management approaches, to name a few. Sociotechnical theory has also led to a trial-and-error approach, often referred to as action research. As the foregoing suggests, sociotechnical theory has been and continues to be highly influential in management theory and practice.

Timothy D. Golden

See also Action Research; Empowerment; Job Characteristics Theory; Scientific Management; Systems Theory of Organizations; Technology Acceptance Model; Technology and Interdependence/ Uncertainty; Total Quality Management

Further Readings


Stages of Creativity

To consider how creative ideas/outcomes arise, it is necessary to provide a definition of creativity. There are as many definitions of this term as there are authors providing these definitions. For our purposes, creativity will be defined as outcomes or processes that are not only new/different but also perceived as useful to those in an organizational setting. Usefulness is crucial in this definition, since many creative ideas may be proposed, but only those useful to an organization are of concern here. Similarly, there are as many answers to the question of how creative ideas/outcomes arise as there are those who ponder this question. One set of answers to this question argues that creativity results from individuals moving through a set of stages—from the motivation to develop creative outcomes to the actual implementation of these outcomes. This stage approach to creativity suggests that although some believe creative outcomes, such as new products, strategies, and the like, appear full-blown in the minds of their “creators,” a more likely explanation holds that individuals and organizations work through a process or a set of stages to arrive at new and useful outcomes. It is a managerial truism that the successful development of innovative and creative ideas/outcomes is crucial to the survival and growth of nearly every organization. Innovations bloom from the creative seeds sown by those in organizations. Without these innovations, organizations can grow stagnant, overtaken in their marketplace by more innovative firms with bolder, better, and more creative ideas and products. Managers work to bring forth their own news ideas as well as ideas from those working with them and for them.
Well-known organizations, such as Apple, Google, and Procter & Gamble (P&G) prosper by developing innovative and creative products and services. To the extent that managers and their organizations have an appreciation of how various stages and their ordering can lead to creative outcomes, the more likely it is that these organizations will continue to develop the creative grist for their innovation mills. With a basic understanding of the topic of interest and its importance to managers and their organizations, the second section of this entry considers two of these stage approaches to creativity. With this as foundation, the third section of this entry evaluates these approaches to creativity and provides managers with several recommendations for encouraging the beneficial activities for each stage of the creative process. The bottom line, of course, is to increase the probability that valued creative outcomes will result from the implementation of some creative process.

Fundamentals

In 1950, in his presidential address to the American Psychological Association, J. P. Guilford talked about creativity as an important focus for future research. He suggested that in looking at previous research on the nature of the creative process there was fairly good agreement that there were four stages in the process, first proposed in 1926 by Graham Wallas. These stages were labeled (a) preparation, (b) incubation, (c) illumination, and (d) verification. Thus, over 60 years ago, there was some consensus concerning the process followed to develop creative ideas relevant to a particular area of interest. One needed to have the necessary skills and abilities in that domain of interest (preparation), to be able to step away from the conscious evaluation of the issue of interest, allowing one’s mind to engage in subconscious or even unconscious consideration of this issue (incubation) to facilitate the “lightbulb going off” (illumination) to reveal the creative idea, and finally, to determine whether this idea will satisfy the demands of the original area of interest (verification). However, Guilford also concluded that while this stage model provides a useful heuristic for thinking about the creative process, the approach failed to reveal the motivation, skills, and abilities needed to work within each stage to move from stage to stage.

More recently, Teresa Amabile introduced her componential model of creativity, which consisted of four stages associated with creative outcomes: (a) problem/task identification, (b) preparation, (c) response generation, and (d) response validation and communication. As part of her stage model, she suggested that at each stage individual intrinsic motivation, domain-relevant skills (skills necessary to think creatively within a particular domain), and creativity-relevant skills (skills necessary to think creatively) are necessary to ensure that the outcomes of this process are new and useful.

Further considerations of these stage models of the creative process suggest that the stages (however labeled) are not discrete but likely overlap in their timing and may reflect a recursive process. Obstacles arising in later stages may require that individuals return to the activities associated with earlier stages. It has also been proposed that while this heuristic approach is helpful to visualize the creative process, more attention needs to be paid to the subprocesses that likely occur within each of these stages. These subprocesses include activities such as problem definition, divergent thinking, intuition, idea generation, and idea evaluation, among others.

Although this entry is not the place to consider these subprocesses in detail, two additional stages can usefully be added to the models above. These two additions might well be contained within several of the stages already considered, but by making these particular additions explicit, their inclusion may offer managers additional leverage points that might further encourage a successful creative process. The first of these additions is “motivation,” and it is necessarily the first step in explaining any behavior. In particular, an individual who is not motivated (intrinsically or extrinsically) to behave in a creative fashion, will be unlikely to develop any useful creative outcomes. It is possible that motivation is assumed or subsumed in the first stage of any stage model of creativity, but making this a separate, explicit stage allows for the suggestion of specific actions managers can/should take to encourage pursuit of creative outcomes by organizational members.

The second addition to the four-stage models above is a stage where creative thinking is most directly brought to bear on the problem at hand—often called “manipulation,” this stage refers to those processes that might generate creative ideas before incubation is necessary. Incubation is that stage that occurs when attempts at creative thought have been
frustrated. Again, this new stage might be contained in the preparation or the response-generation stages considered above, but it would appear to demand organizational systems/resources different from those needed in other stages in this process.

**Importance**

There is empirical evidence to support these stage models of creativity, as well as their value in exposing the various subprocesses that might encourage creative outcomes. However, one valuable function of these models is to provide indicators of where organizations can leverage certain systems/activities to increase the likelihood that creative outcomes will obtain from organizational members. The final section of this entry offers several ideas to facilitate each particular stage.

**Motivation.** As a general rule, organizations with a creative culture (à la Apple, Google, and P&G) will have employees who believe that the pursuit of creative outcomes is an organizational good. No stage model of creativity will be successful if employees do not believe that one of the most important values guiding employee behavior is the desire to produce creative and innovative products or services. Employees really have to want to be creative. Not surprisingly, evaluation and reward systems are key determinants of employee behavior. A second managerial truism might be, “What gets evaluated/rewarded is what gets done.” Thus, if managers want employees to be creative, evaluation and reward systems must reinforce those behaviors leading to creative outcomes.

**Preparation.** Employees must have the necessary skills and abilities to engage in creative thought and behavior. This means employee education, experience, and training must provide them the appropriate domain-relevant skills. Preparation can be a double-edged sword, however. Too much education, experience, and training focused on a particular domain might reinforce the accepted way of doing things. This makes “outside the box” thinking more difficult. This possible obstacle to creativity could be overcome by exposing employees to other employees with different experiences/training and allowing them to offer different perspectives on the question at hand.

**Manipulation.** Here is where the initial attempts at creativity are pursued. Here is where the creativity-relevant skills that Amabile included in her model become more important. Divergent thinking, fluency, and flexibility are all skills that can be learned and are most valuable in attempting to see things in different ways. The development of collaborative efforts in producing creative ideas also provides opportunities for employees to see how others from different functional areas might deal with a particular issue. Collaborative efforts can be quite valuable in moving the manipulation stage along.

**Incubation and illumination.** These stages are paired, since it is often difficult to tell where the incubation stage ends and the illumination stage begins. It is likely that you, the reader, have experienced roadblocks that have hampered your efforts to generate that creative solution—a solution you know is there but that you just can’t quite put your finger on. Organizations that allow employees time away from the active pursuit of creative outcomes are encouraging the incubation and illumination stages. Some organizations do this in formal ways with time off, sabbaticals, quiet hours, and the like. Additionally, a tolerance for uncertainty or ambiguity as outcomes are pursued and an appreciation of importance of employee intuition in these stages of the creative process are quite valuable.

**Verification.** Many creative ideas perish in this final stage of the creative process. It is at this point that new ideas are offered for public perusal and comment. It is also the nature of most humans to criticize that which is new and different. Consider your reactions the first time you were confronted with a new idea. It is up to the employee and the organization to provide protection for creative ideas from the onslaught of criticisms too often thrown at new approaches. Some creative individuals have personalities (self-confidence and courage, in particular) that afford them the willingness to fight to protect their creations from criticism. To protect ideas from those without these traits, organizations should develop verification approaches that reduce levels of criticism of creative ideas until the full nature of the idea has been explained and is more fully understood and perhaps even appreciated. Not every new idea will survive this step, but even those ideas that do not may provide the fodder for an even more creative outcome in the future.
In summary, these two models explaining the stages of creativity have good research support and have been responsible for creating a variety of research programs aimed at a better understanding of what contributes to the development of new and useful organizational ideas and outcomes. This entry has described the creative stages in these models expanding the number of stages from four to six. A stage approach to creativity may be somewhat simplistic, since within each stage there are a number of subprocesses that likely occur. In fact, one could argue that there are similar minicreative processes at work within each of the macrostages. Certainly, taking this reductive approach too far is not terribly helpful to the practicing manager. Thus, the six-stage model discussed above was the foundation for suggestions as to how each stage might be facilitated. It is hoped that the modern manager will find these suggestions beneficial as they strive to increase levels of personal and professional creativity.

Richard S. Blackburn

See also Brainstorming; BVSR Theory of Human Creativity; Componential Theory of Creativity; Interactionist Model of Organizational Creativity; Investment Theory of Creativity; Stages of Innovation

Further Readings


STAGES OF INNOVATION

An innovation is the creation and implementation of a new idea. The new idea may pertain to a technological innovation (new technical artifacts, devices, or products), a process innovation (new services, programs, or production procedures), or an administrative innovation (new institutional policies, structures, or systems). The idea may be a novel recombination of old ideas, an invention that challenges the present order, or an unprecedented formula or approach. As long as the idea is perceived as new and entails a novel change for the actors involved, it is an innovation. Innovations can vary widely in novelty, size, complexity, and temporal patterns of development. Some innovations involve small, quick, incremental, lone-worker efforts. They are unplanned and emerge by chance, accident, or afterthought. On the other hand, the innovations examined in this entry are larger in scale and scope. They consist of planned, concentrated efforts to develop and implement a novel idea that reflects substantial technical, organizational, and market uncertainty; entails a collective effort of considerable duration; and requires greater resources than are held by the people undertaking the effort. Most studies of innovation have focused on the causes and consequences of innovation. Very few have examined the process of how innovations develop from concept to implementation or termination. Understanding the process of innovation is critical for entrepreneurs and managers who seek advice in developing their innovations. In practice, the majority of new and seemingly useful inventions fall by the wayside during the innovation development process and never get implemented. Some of these ideas are terminated for good reasons because during the development process they are found not to work, be feasible, or solve a problem. However, many good ideas are never implemented because of complexities and dynamics of the innovation process (i.e., the sequence of events and challenges that unfold to initiate, develop, and implement an innovative idea). Therefore, understanding the innovation process provides important insights to practitioners and scholars. This entry presents a model of the stages of idea creation, development, and implementation during the innovation journey.
Fundamentals

Perhaps the most widely known model of the innovation process was proposed by Everett Rogers. It represents four decades of Rogers’s own research and a synthesis of over 4,000 published innovation studies. This model portrays the process of innovation as consisting of three basic stages: (1) creation or invention of novel idea, which comes from a recognition of market or user needs and advances in basic science or technology; (2) its development, or the sequence of events in which the new idea is transformed from an abstract concept into an operational reality; and (3) implementation, or the adoption and diffusion of the innovation by users. A major longitudinal study that tracked how these stages unfolded in a wide variety of new technologies, products, services, and programs was conducted by the Minnesota Innovation Research Program (MIRP). In this research program, Andrew Van de Ven and his colleagues found a dozen common characteristics that occurred during the initiation stage (dealing with innovation gestation, shock, plans), the development stage (proliferation, setbacks, shifting assessments, fluid participation of organizational personnel, relationships with investors/top managers and others, infrastructure development), and the implementation stage (adoption by integrating the new into the old, and termination). The following section elaborates on processes in each stage of innovation.

Idea Creation or Invention Stage

Studies of the innovation process have found the initial period to be characterized by gestating ideas, shocks, and planning. Innovations are usually not initiated on the spur of the moment, by a single dramatic incident or by a single entrepreneur. An extended gestation period often lasting several years unfolds in which seemingly random events occur before innovations are initiated. Many events may not be intended to start an innovation. Some trigger recognition of need for change; others, awareness of technical possibilities. Some of these events “shock” entrepreneurs to mobilize plans and resources for developing an innovation.

Amabile summarizes many research studies indicating that individuals are more likely to be creative (come up with novel ideas) and innovative (develop and implement new ideas) in organizations that both enable and motivate innovation. The design of an organization’s structure, culture, and practices influence the likelihood that innovative ideas will be surfaced and that once surfaced they will be developed and nurtured toward realization. Several features of organizational structure are empirically related to innovative activities. The more complex and differentiated the organization, and the easier it is to cross boundaries, the greater the potential number of sources from which innovative ideas can spring. However, as organizational size and complexity increases, organizations tend to segment tasks and develop bureaucratic procedures. These often constrain innovation unless special systems are put in place to motivate and enable innovative behavior.

Key motivating factors include providing a balance of intrinsic and extrinsic rewards for innovative behaviors. Incentive pay (i.e., monetary rewards contingent on performance and in addition to base salary) seems to be a relatively weak motivator for innovation; it more often serves as a proxy for recognition. Individualized rewards tend to increase idea generation and radical innovations, whereas group rewards tend to increase innovation implementation and incremental innovations.

In addition to these motivating factors, the following components have also been found to enable and constrain innovative behavior in organizations:

- Resources for innovation (e.g., financial, technical, human resources)
- Frequent communications across departmental lines, among people with dissimilar viewpoints
- Moderate environment uncertainty and mechanisms for focusing attention on changing conditions
- Cohesive work groups with open conflict resolution mechanisms that integrate creative personalities into the mainstream
- Structures that provide access to innovation role models and mentors
- Moderately low personnel turnover
- Psychological contracts that legitimate and solicit spontaneous innovative behavior

Innovation Development Stage

The initiation stage usually concludes when an innovation (or entrepreneurial) team is formed and
funded to develop the innovation based on a plan and budget approved by resource controllers (top managers or venture capitalists). This developmental process is characterized by proliferating innovation events, setbacks, shifts in assessment criteria, fluid participation of organizational personnel, conflicting involvements of investors/top managers, changing relationships with others, and involvements in developing an industrial infrastructure to commercialize or implement the innovation. An intensive real-time study of innovation development conducted by the MIRP found that soon after work begins to develop the venture, the process proliferates from a simple unitary sequence of activities into divergent, parallel, and convergent progressions. Some of these activities are related through a division of labor among functions, but many are unrelated in any noticeable form of functional interdependence. Ideas and paths that were perceived as relevant and congruent at one time become viewed as being independent and disjunctive at another time when the innovation idea or circumstances change. Problems, mistakes, and setbacks frequently occur as these developmental paths are pursued, and they provide opportunities either for learning or for terminating the developmental efforts.

Maneuvering these common characteristics of the innovation development journey emphasize the importance of learning and leadership. Learning is critical in pursuing those courses of action that appear successful and in avoiding or terminating those actions that do not work or lead to apparent failure. During the initial period of development, an innovation team must learn by discovering what innovation goals, courses of action, and contexts are feasible before it can learn through a trial-and-error process of testing which courses of action achieve desired goals in different contexts.

The innovation development process is also guided by four different leadership roles: a sponsor, mentor, critic, and institutional leader. These four leader roles often serve as checks and balances on each other in directing innovation entrepreneurs. A sponsor is typically a high-level manager who can command the power and resources to push an innovation idea into good currency and thus procures and advocates the innovation. A mentor is usually an experienced and successful innovator who assumes the responsibility for coaching and counseling an entrepreneur. On the other hand, a critic serves as a “devil’s advocate” by challenging innovation investments, goals, and progress. An institutional leader is often an executive who is less involved in the innovation and who settles disputes between the pro-innovation leaders (i.e., sponsor, mentor, and entrepreneur) and the critic.

**Innovation Implementation (Adoption) Stage**

The implementation stage begins when activities are undertaken to adopt and implement an innovation. When the innovation is created and developed within the organization, implementation processes include introducing the innovation in the market, transferring it to operating sites, or diffusing it to potential adopters. If the innovation is developed elsewhere, the implementation process centers on the activities undertaken by a host organization to introduce and adopt the innovation. Through diffusion, the innovation is communicated through communication channels (e.g., mass media, experts, and peers) over time among the members of an adopting community or market.

Rogers points out that it is misleading to assume that development of an innovation is completed during the implementation period because much reinvention occurs during the implementation process. Reinvention is a process in which adopters modify an innovation to fit their local implementation setting. It facilitates the transition of innovation ownership from developers to implementers. This is true whether the innovation was developed within the organization that uses it or was imported from the outside. In either situation, implementation deals with adopting and tailoring an innovation to the organization’s specific local needs and constraints.

In organizations where innovations are “homegrown,” researchers found that implementation activities often occur throughout the developmental period by linking and integrating the “new” with the “old,” as opposed to substituting, transforming, or replacing the old with the new. Because of limited organizational resources, an important implication of this finding is that implementing innovations can seldom be simple additions to existing organizational programs. Substituting the old with the new is also often not possible for political reasons. People are reluctant to replace existing organizational programs, because of the history of investments and commitments they have made to them. Implementation proceeds more smoothly in those
cases where the “new” overlaps with and becomes integrated into existing organizational arrangements.

Evolution
Early conceptions of the innovation process viewed it as consisting of a linear sequence of invention, development, and implementation stages that can be controlled by managers or entrepreneurs. Subsequent studies have found that the innovation process is considerably more complex than the commonplace view of the creation, development, and implementation of a core novel idea by a stable and full-time set of people operating within a stable context. Overall, the process is linear in that it evolves from invention, development, and implementation of an idea. However, closer examination of activities within each of these stages reveals more complex nonlinear processes. For example, during the innovation development stage, the core innovative idea tends to proliferate into many ideas. There is not only invention, but there is reinvention as well, with some ideas being discarded as others are reborn. Many persons are involved in innovation, but most of them are only partially included in the innovation effort, as they are distracted by very busy schedules because they perform many other roles unrelated to the innovation. The network of stakeholders involved in transactions is constantly being revised. The various parties to an innovation create a multiple enacted environment. Rather than a simple, unitary, and progressive path, we see multiple tracks, spin-offs, and the like, some of which are related and coordinated and others that are not. Rather than a single after-the-fact assessment of outcome, we see multiple, in-process assessments. The discrete identity of innovation may become blurred as the new and the old are integrated.

As these observations suggest, most innovation processes do not unfold in sequential stages and orderly steps. The process is often highly unpredictable and uncontrollable. Yet it is not a random process either. Van de Ven and colleagues conclude that the innovation journey is a nonlinear dynamic cycle of divergent and convergent activities that unfold over time. Organizations often use stage gate processes to manage the stages of new product development, including idea screening, concept development, product design, testing and validation, and product launch. While stage gate processes provide a useful discipline for reviewing and investing in multiple periods often required to develop innovations, they do not necessarily increase the predictability of the process. Indeed, studies of the nonlinear innovation process suggest that managers cannot control innovation; instead, they can learn to maneuver the journey by practicing and learning routines for dealing with challenges and setbacks when they arise.

Recent studies of the management of innovation have expanded to examine the external environment of innovation. Using the population (of organizations) in an industry, researchers can examine the sources of technological variation among firms and the rates of innovation emergence over time. Studies find that the development and diffusion of innovations is highly dependent on a community or industrial infrastructure for innovation. This infrastructure includes basic resource endowments of scientific knowledge, financial resources, and competent human capital, enabling institutional rules, standards, and norms, as well as market demand and educated potential consumers of the innovation.

Specialized fields of study have examined the stages of innovation with different perspectives. Psychologists investigate individual and group creativity, intrinsic and extrinsic motivation to develop innovation, and cooperative working environment to implement innovation. Sociologists explore the social networks of knowledge transfer and their impact on innovation initiation and the pressure toward social conformity. For example, an organization adopts innovations or imitates other organizations to follow fads and fashion in its population and to appear legitimate. Economists explain the initiation of innovation using “technology push” versus “demand pull.” They also argue that rational actors should implement effective innovation or otherwise become inefficient and weeded out from the population.

Importance
Building on the three stages of innovation, a number of studies have explored enabling and constraining factors. Studies have found that organizational age, size, incumbency, and interorganizational networks have both enabling and constraining effects on innovation. As organizations age, they generate more innovations (or patents), but these gains in
competencies and efficiencies come at the price of a decreasing fit between organizational capabilities and environmental demands as organizations age. In terms of size, research programs located within larger firms are significantly more productive than rival programs located within smaller firms because the advantages large firms realize from economies of scale and scope (e.g., diverse portfolios of research projects that capture internal and external knowledge spillovers) outweigh the efficiency losses attributable to market power of large firms. With regard to incumbency, firms established in a product domain fail to adopt new technologies as a result of inertia in the decision-making processes induced by powerful customers. However, the advantages that established firms have over new entrants—investment resources, technical capabilities, and complementary assets—generally offset their handicap of introducing inferior or competence-enhancing product designs in comparison to rival or competence-destroying designs of new entrants.

The position and connections of an innovation within larger social networks can facilitate and constrain innovation by providing access to valuable information and knowledge for innovation initiation or development and by diffusing the developed innovation through the networks. In a similar vein, research based on cluster theory found that innovation diffusion is geographically bounded within a firm’s cluster. Studies have shown that complementary innovations in technical and institutional arrangements are usually required to develop and commercialize a technology. This has been demonstrated in studies of innovations as diverse as in agriculture, cement, minicomputers, glass, biotechnology, and biomedical devices. The roles of public and private sector actors have also been found to be important in the development of an industrial infrastructure for innovation.

**Directions for Future Research**

The pioneering work of Schumpeter called practitioners’ and academics’ attention to the importance of innovation in management, and many studies of innovation have been conducted since then. Nonetheless, there is still enormous room for research in the process of innovation both theoretically and methodologically. Despite the multilevel or cross-level interactions that occur during the innovation process, studies that incorporate such interactions are rare. The increasing number of international collaborations for innovation also requires cross-cultural examinations in innovation research. Moreover, future studies should be free of the positive bias that pervades the study of innovation. Innovation is often viewed as a good thing because the new idea must be useful—profitable, constructive, or solve a problem. New ideas not perceived as useful are often called “mistakes.” However, the usefulness of a new idea can be determined only after the innovation process is completed and implemented.

Methodologically, the complexity of the innovation process and the diverse range in every innovation (i.e., duration, scale, scope, etc.) make it difficult to empirically examine innovation from the initiation to the implementation, especially with large-sample data. Most studies so far thus have focused on one stage or the other, leaving a handful of studies that follow through the entire stages. Even so, some valuable research is done through case studies and simulation models. In addition, studies of patents and patent citations have demonstrated that the knowledge and resources relevant to the development of many innovations transcend the boundaries of individual firms, industries, and nation states.

_Yoonhee Choi and Andrew H. Van de Ven_

**See also** Innovation Diffusion; Patterns of Innovation; Process Theories of Change; Stages of Creativity; Strategic Entrepreneurship

**Further Readings**


Stakeholder Theory

Stakeholder theory advances the notion that organizations that take particularly good care of a broad group of their stakeholders (i.e., customers, suppliers, employees, communities) will function more effectively and create more value. This value may then be used to sustain and grow the organization, and to give back to the stakeholders who helped create it. This type of firm behavior will be referred to herein as managing for stakeholders. Stakeholder theory is both managerial and prescriptive because it deals very specifically with manager behavior and the relationships between a firm and its constituencies. The theory also rests on a strong ethics foundation. This entry begins with a detailed elaboration of some of the fundamental concepts of stakeholder theory, followed by a description of its evolution and importance.

Fundamentals

The description provided in the introduction contains several concepts that require further explanation and elaboration: Who are an organization's stakeholders? What does it mean to take particularly good care of them? What is “value”? How does taking care of stakeholders help an organization create more of it?

Defining Who Is and Is Not a Stakeholder

Stakeholders are groups and individuals who have an interest in the activities and outcomes of an organization and on whom the organization relies to achieve its own objectives. For instance, customers are a stakeholder because they acquire goods and services from the firm in exchange for money that is then used to continue the firm's operations. This is an example of an economic stake. Suppliers and employees are other examples of stakeholders with an economic stake in the organization. Stakeholders might also have an equity stake in the firm, such as shareholders. In addition, stakeholders may simply have an interest in what the firm does because it influences them in some way, even if it is not a direct market effect. In the early stakeholder literature, these stakeholders were sometimes referred to as kibbutzers. Special interest groups, for instance, try to influence firm decisions in conformance with their own agendas. Of course, stakeholder interests also tend to be interconnected, which means that stakeholder coalitions often form around particular issues and any particular organizational action could be received either favorably or unfavorably across a variety of stakeholder groups.

The third type of stake, the influencer or kibbutzer stake, highlights an important point: Just because a stakeholder has an interest in the organization does not necessarily mean that the organization is particularly interested in that stakeholder. Although there is no universally accepted definition of who merits classification as a legitimate stakeholder from the organization's perspective, in general, stakeholders are considered salient to the managers of an organization if they have power and legitimacy. Stakeholders have power if they possess critical resources that the firm needs or if they have the ability to influence outcomes through political, coercive, or other means. Legitimacy pertains to cultural and societal norms. For instance, a stakeholder may be considered salient to a manager because doing so is considered desirable, proper, or appropriate given the circumstances. In addition to power and legitimacy, a stakeholder that might not normally be considered very important could become important in urgent situations, where urgency means that a particular stakeholder's claim is time sensitive or critical to the stakeholder.

Another way to determine which stakeholders should receive primary attention from an organization is the principle of fairness. This principle suggests that the organization's legitimate stakeholders should include those from whom the organization has voluntarily accepted resources. Primary stakeholders would include employees, customers, financiers, suppliers, and local communities. They might also be considered primary because they are integrally linked to the value-creating processes of the organization. Secondary stakeholders can dramatically influence an organization but typically are not a part of the firm's operating core. Examples of secondary stakeholders include the government, the media, special interest groups, consumer advocate groups, and competitors.

Stakeholder theory received criticism early in its development from people who claimed that it advances the position that all stakeholders should have equal standing with the firm. While it may be true that stakeholder theory advocates for moral
and just treatment of all a firm’s stakeholders, it does not argue that all stakeholders are equal. This is especially pertinent with regard to the resources an organization devotes to serving particular stakeholders and the value it allocates back to them. Fairness would suggest that more value and attention should be allocated to stakeholders who are central to the organization’s objectives and who contribute the most to the firm’s value creation processes.

**Stakeholder Treatment and Business Ethics**

Treatment of stakeholders is central to stakeholder theory. Although there is no consensus on exactly what it means to treat stakeholders well, certain principles exist regarding treatment of stakeholders that are widely accepted among those who advance the theory. These principles rely primarily on ethical thinking, which means, in part, that the actions of a firm with regard to its stakeholders are judged by core rules based on socially accepted norms of behavior (i.e., lying is wrong). Firm behavior, from a stakeholder perspective, may also be judged based on outcomes. That is, firms are expected to produce favorable outcomes based on achievement of goals that are morally important. For instance, a for-profit corporation is expected to create products and/or services that satisfy consumer needs and wants, to provide a means for employees to take care of the physical needs of themselves and their families, to help in the communities in which they operate, and to provide fair returns to stockholders, among other things.

Organizational justice theory is a helpful tool for judging firm behavior with regard to stakeholders and for understanding how particular behaviors can influence firm outcomes. *Distributional justice* occurs when a stakeholder perceives that its allocation of value from the firm is fair relative to what the firm’s other stakeholders receive or what the stakeholders of other firms receive. For instance, an employee might feel that his or her salary and benefits are fair compared to what other employees receive within the firm or compared to what people who perform similar tasks in other firms receive. *Procedural justice* pertains to a stakeholder’s perception of the fairness of an organization’s decision-making processes. A supplier, for example, may not like the fact that a bid was rejected but can handle the rejection much better if the selection process was perceived as fair. Interactional justice deals with fairness in the way stakeholders are treated in day-to-day transactions and communications with the firm. Firms that exhibit organizational justice can expect most of their stakeholders to reciprocate with similar behaviors. Thus, cooperative relationships are developed based on trust.

Stakeholder theory’s inclusion of ethical considerations increases its practicality because business and ethics are inseparable in real life. All business decisions contain ethical dimensions because they all influence outcomes for multiple stakeholders. The attempt to consider business decisions in the absence of ethical considerations is referred to as the separation fallacy.

**Stakeholder Theory and the Value Created by an Organization**

Much of the business literature is founded on the notion that financial profits (and associated shareholder returns) are the primary objective of the corporation. This obsession with the bottom line is easy to understand because financial profits are easily measured, whereas other types of value are difficult to measure. Also, a very popular stream of thought called agency theory argues that managers have a fiduciary responsibility to maximize returns to shareholders and that any manager behavior that works to reduce those returns represents an agency problem. Further, some authors have argued that shareholders are the only firm stakeholder who receives residual returns; that is, shareholders do not have a well-defined contract with regard to the returns they will receive, and they receive returns only after all other stakeholders with explicit contracts are paid. The ensuing shareholders versus stakeholders debate has filled many thousands of journal pages, with stakeholder advocates arguing that managers (and boards of directors) have legal responsibilities as well as moral obligations to all their stakeholders and not just to the shareholders. This treatment of the debate is oversimplified, but it will suffice for purposes of this entry.

Value is defined much more broadly in the stakeholder literature. An organization creates value by providing utility to a wide range of stakeholders. Customers and clients receive utility as they make use of the products and services of the firm, employees in a positive work environment may receive personal enrichment and growth from the work they perform, communities may benefit from
Stakeholder Theory

a cadre of organizational volunteers who provide services to local charitable organizations, and so forth. Voluntarism is one of the defining characteristics of stakeholder theory. That is, the organization, through its managers and employees, behaves in certain ways because of an organizational culture that is based on a set of widely understood principles, not because of compulsion.

According to stakeholder theory, organizations that manage for stakeholders provide more value to their stakeholders than they need to provide just to keep them engaged with the organization. This type of behavior, when combined with trust stemming from organizational justice and adherence to ethical principles, leads to trusting, respectful, and mutually beneficial relationships with stakeholders—and a high level of reciprocation. Stakeholders are more likely to share valuable information with such a firm, which can lead to both efficiency and innovation. These sorts of firms have excellent reputations, which makes their products and services more attractive to existing and new consumers. Resources are easier to obtain because stakeholders expect to be treated well in exchange for what they provide to the firm. Contracting costs are reduced because stakeholders are more trusting of the firm and therefore fewer features of the contracts between a firm and its stakeholders have to be written down and carefully monitored. All this leads to firm growth, efficiency, flexibility, and therefore, an increased ability to both plan and carry out plans. Basically, these types of firms just run better. Firms of this type are also much less likely to become victims of negative stakeholder actions such as walkouts, boycotts, lawsuits, and bad press. Consequently, their securities may be seen as less risky (and thus more valuable) to investors.

**Evolution**

Stakeholder theory rests on some easily understood concepts and principles whose origin it is impossible to trace with precision; however, practically everyone who works in the stakeholder area acknowledges R. Edward Freeman, currently of the Darden School at the University of Virginia, as its intellectual leader. By Freeman’s own account, many of the ideas contained in his landmark book, *Strategic Management: A Stakeholder Approach*, were developed at the Wharton Applied Research Center at the University of Pennsylvania in collaboration with colleagues including James R. Emshoff, Arthur Finnell, Ian Mitroff (and Richard Mason), Thomas Saaty, Russel Ackoff, and Eric Trist. Nonetheless, from among this group of scholars, it was Freeman who in 1984 published the book that provided an intellectual framework on which an entire stream of management inquiry and debate was built.

Freeman thought he was writing a textbook for the strategic planning process that could be used by both students and executives. The book is very applied. It was written with the express purpose of helping managers (and future managers) to effectively guide their organizations in an environment that had become increasingly complex, turbulent, and interconnected. The book’s greatest influence on academia was first felt in the business ethics literature. Business ethics scholars embraced the stakeholder approach to management because of its moral foundation. In particular, social responsibility scholars found it especially helpful as a means to defend socially responsible firm behaviors. Ironically, the emerging strategic management discipline for whom the book was intended largely ignored Freeman’s work, in spite of the fact that many of its early thought leaders advocated for a strategic management process that incorporated morality and social responsibility. Early neglect of stakeholder theory by strategists was perhaps at least partially a result of the field’s obsession with economic models from the 1980s forward.

Interest in stakeholder theory has blossomed in recent years, to the point that it might now be called a field of scholarship, albeit a field that is very diverse. Its popularity is probably a function of several forces: an increasingly complex and interconnected external environment that stakeholder theory is especially well suited to address, acknowledgment among business scholars and managers that too much emphasis on short-term financial returns has led to unfavorable outcomes for businesses and society, numerous highly visible business scandals that have raised public awareness of ethical issues, and a global sustainability movement. The diversity of the field is demonstrated in a book published in 2010 called *Stakeholder Theory: The State of the Art* that contains nearly a thousand references, including references from the economics, strategic management, finance, marketing, management, accounting, information technology, health care, law, business ethics, social responsibility, environmental policy,
and public policy/administration disciplines. A conference on stakeholder theory in Barcelona in 2011 attracted scholars and practitioners from 25 nations, and the Strategic Management Society just formed a special interest group on stakeholder strategy intended to promote research and debate.

Much of the literature on stakeholder theory thus far has been devoted to either defining and justifying the stakeholder perspective or, from an empirical perspective, proving that seeking to satisfy a broad group of stakeholders is economically justifiable. Moving forward, stakeholder theory offers the opportunity to redefine capitalism as a way to create value for stakeholders, as well as a lens through which best practices for stakeholder engagement can be identified.

**Importance**

Managing for stakeholders is associated with higher costs in some areas. A firm that gives more value back to its stakeholders than is absolutely needful to ensure their continued involvement with the firm might pay more to employees in wages and benefits than its competitors pay and is likely to offer a more attractive value proposition to its customers for its products and services than the market might otherwise demand. Surrounding communities tend to be beneficiaries of philanthropy and service from firm employees in a variety of ways. Furthermore, firms that manage for stakeholders will incur human and financial costs associated with higher levels of communication with and concern for stakeholders. Although stakeholder theory embraces a much broader view of value creation than mere financial returns, many management scholars have expressed the opinion that the financial benefits associated with managing for stakeholders are likely to exceed the financial costs. Consequently, they argue that managing for stakeholders should be associated with higher financial performance.

The bulk of the empirical and anecdotal evidence to date supports the notion that firms that manage for stakeholders tend to have higher financial performance. Even some of the theory’s most ardent detractors have come around to the idea that this type of management is congruent with shareholder value creation. Consequently, the shareholders versus stakeholders debate is not particularly important—if the stakeholder approach leads to high shareholder returns, then why should shareholder advocates object to it?

Causality is an issue that requires more empirical research. Some researchers argue that managing for stakeholders is a luxury that follows financial success and that this is the source of the positive correlation. This may be true in part, but some research indicates that causality works in the opposite direction is well. That is, excellent stakeholder treatment can enhance firm performance. Nevertheless, it is important to understand that since stakeholder theory measures value more broadly than merely financial returns, even a firm with average financial returns may be creating substantially more value by providing more utility to a wider range of its stakeholders. Research that supports a positive financial correlation with the managing-for-stakeholders approach may be useful in silencing the shareholder advocates that have tended to be its most vocal critics, but leading stakeholder scholars tend to be more interested in the bigger picture of the total impact of firms that practice this sort of management and in defining a set of best practices for increasing the total value a firm creates.

Stakeholder theory has had an enormous impact on business practice. Most of the annual reports of the largest companies in the United States and many other industrialized nations include some version of the stakeholder concept or at least stakeholder terminology. The popularity of the concept is part of a global trend toward more socially responsible or sustainable management practices. Many companies are now taking the concept seriously and make very deliberate efforts to satisfy their primary stakeholders, whereas other companies may simply use the terminology as a sort of “window dressing” because it is politically fashionable.

Stakeholder theory has also found its way into the political arena, with politicians in some nations now using its principles and terminology when debating public policy issues. A global movement to make businesses more responsible to a larger number of stakeholders is reflected in the U.N. Global Compact that includes ten principles built around human rights, labor, the environment, and anticorruption. Many other groups have emerged on a global scale to promote stakeholder-friendly business practices, such as the Caux Round Table, a global network of business leaders, and the Conscious Capitalism Institute, which includes scholars, corporate
executives, consultants and thought leaders who engage in stakeholder-oriented research, teaching, and practice.

Jeffrey S. Harrison

See also Corporate Social Responsibility; Human Capital Theory; Leadership Practices; Learning Organization; Organizational Effectiveness; Stewardship Theory; Strategic Alliances

Further Readings


**Stewardship Theory**

Stewardship is defined as caring and loyal devotion to an organization, institution, or social group. From a managerial perspective, it can explain settings where organizational leaders serve the organization’s objectives, its greater good, and its shareholders. In contrast to agency theory, which suggests organizational “agents” are self-serving, economically motivated, and have interests that may diverge from those of the principals/shareholders, stewardship theory suggests “stewards” have interests beyond purely economic motivations and these noneconomic motivations can cause them to pursue cooperative, pro-organizational behaviors in service to others, which is consistent with the interests of principals/shareholders. In contrast to agency theory, where “agents” seek to optimize their personal economic gains at the expense of others, stewardship theory suggests “stewards” gain greater utility by pursuing actions that increase their own intrinsic rewards and by putting the interests of the organization, and others, above their own. By drawing on sociological and psychological perspectives, stewardship theory offers a broader, complementary view to agency theory. It also suggests some of the agency theory-based control and governance mechanisms intended to ensure the alignment of agents and principals—such as compensation schemes (e.g., stock ownership, stock options, or pay for performance) or boards of directors—need to be reconsidered to reflect individuals’ noneconomic motives. The next section describes the theoretical assumptions and mechanisms on which stewardship theory was founded and concludes with a discussion of the domain of stewardship theory.

**Fundamentals**

While agency theory is based on the economic model of man, stewardship theory is based on the self-actualizing model of man. A fundamental belief of stewardship theory is that, given a choice, stewards will choose to pursue pro-organizational, collectivist behaviors over individualistic, self-serving behaviors because of the greater utility they will receive from the former, making stewardship behavior a completely rational choice. The assumptions of stewardship theory differ from those of agency theory in that the motivations of stewards stem not only from their own psychological mechanisms and motivations but also from the situational mechanisms that exist within their organizations. Three psychological mechanisms and three situational mechanisms uniquely define how stewardship theory differs from agency theory. The psychological mechanisms are
(1) intrinsic motivation, (2) identification with the organization, and (3) use of power. The situational mechanisms are (1) involvement orientation, (2) the extent to which the organization values individualism versus collectivism, and (3) the level of power distance accepted within the ranks of the organization.

**Psychological Mechanisms**

While agency theory assumes that agents are extrinsically motivated by lower order needs—economic and tangible rewards (e.g., physiological and security needs)—stewards are assumed to hold higher order needs, meaning they will be intrinsically motivated and will actively seek opportunities for personal growth and achievement. These motives will direct them to work harder on behalf of the organization. Identification with the organization occurs when stewards define themselves as members of their organization and accept the organization’s mission and objectives as their own. In this instance, stewards are motivated to help the organization overcome problems and obstacles and gain satisfaction from the firm’s successes, which will align their interests with those of shareholders. In terms of use of power, stewards are assumed to prefer personal power (i.e., expert power—power based on knowledge—and referent power—power based on someone liking you) as opposed to coercive, legitimate, and rewards powers, which are the bases of power central to agency theory. Reliance on personal power creates a setting that emphasizes long-term relationships as opposed to short-term, transactional relationships.

**Situational Mechanisms**

Organizations can be classified as either control oriented, which is an agency-based perspective, or involvement oriented. Involvement-oriented organizations can be described as having work climates of self-control and self-management where employees are challenged to take responsibility, generate novel ideas, and develop new approaches to solve organizational problems, a condition that aligns with the interests of shareholders. Organizations can also be viewed as having either an individualistic, agency-based culture or a collectivist culture. Collectivist cultures emphasize the accomplishment of organizational goals, and members have a strong sense of belonging to the organization. **Power distance** is defined as the extent to which less powerful members of the organization expect and accept that power is unequally distributed throughout the organization. In high-power-distance organizational cultures, status and special privileges are given to those in higher ranks, which may foster agency-based behaviors. However, low-power-distance organizational cultures are more egalitarian, and organizational members are treated equally, which would foster stewardship behaviors within the organization.

**Domain and Application**

Stewardship theory is most often discussed in the corporate governance literature. Because stewardship behaviors require long-term, cooperative, trusting, mutually dependent relationships, stewardship theory is often applied within the context of family businesses, where these types of collective relationships are most likely to emerge. Thus, stewardship behaviors are proposed to provide family businesses with a competitive advantage because they experience reduced opportunism and lower agency costs compared to nonfamily business firms. Stewardship theory is also important to all managers because it suggests that by establishing a pro-stewardship climate (e.g., by relying on referent power or emphasizing a collectivist culture), managers can improve individual and organizational performance. For example, investments in R & D or new product development might have a greater positive effect on financial performance in organizations with a strong stewardship climate. Although there is growing interest in stewardship theory, few empirical studies have tested stewardship-based relationships because of the difficulty of measuring stewardship at an individual and organizational level.

Donald O. Neubaum

See also Agency Theory; Management Control Systems; Organizational Identification; Servant Leadership

**Further Readings**


### Strategic Alliances

In recent decades, strategic alliances have become a widely accepted competitive tool in business. Broadly defined, strategic alliances refer to interfirm cooperative arrangements aimed at pursuing mutual strategic objectives of the partner firms. The two or more partners forming such alliances remain competitors. Examples of strategic alliances include joint ventures, research and development (R & D) agreements, research consortia, joint manufacturing and marketing agreements, buyer-supplier relationships, licensing, franchising, and so on. Strategic alliances seem to be proliferating with increasing competition and globalization. The rationale for entering into alliances typically include market access, economies of scale, risk and cost sharing, and learning. However, notwithstanding this popularity, strategic alliances have inherent instabilities and quite often end up as failures. We should note, though, that alliance failures refer to major changes (such as a merger/acquisition not originally intended) or dissolutions of alliances that are unplanned from the perspective of one or more partners. Planned terminations of alliances, with time-bound agreements, should not be considered as failures. Estimates of instabilities have ranged between 40% and 70% within a period of a few years of the formation of alliances. Overall, given the relatively high likelihood of failure, strategic alliances must be considered as a high-risk strategy, and alliance managers would need to develop a facility beyond handling single-firm strategies in to judiciously cope with the unique complexities and risks in alliances. This entry discusses the basic types of strategic alliances, their developmental stages, and the complexities relating to their management, such as those concerning resources, risks, trust, control, and internal tensions.

### Fundamentals

Strategic alliances can be divided into two groups—equity and nonequity. Equity alliances are generally in the form of equity joint ventures, which are separately incorporated entities jointly owned by the partners. Equity joint ventures are created to substantially integrate the joint efforts of partner, and are the most instrumental among various alliance forms in the transfer of tacit knowledge between the partners, because of the significant extent to which partners are exposed to each other. In minority equity alliances, one or more partners take an equity position in others.

Nonequity alliances may be differentiated between unilateral contract-based alliances and bilateral contract-based alliances. Alliances are unilateral contract-based when there are well-defined transfer-of-property rights, such as in R & D and licensing agreements. Such unilateral alliances are based on contracts that tend to be complete and specific, and partners carry out their obligations independently of each other, without much coordination or collaboration. Bilateral contract-based alliances, however, require partners to work together on a constant basis, as in joint R & D, joint production, and joint marketing and promotion. These alliances involve the sustained joint creation of property and knowledge for the partners. Bilateral contracts are usually incomplete and more open-ended than the unilateral type, and the partners generally have to let their cooperative relationship unfold with experience.

For managing alliances effectively, it may be useful to keep in mind the three developmental stages of alliance formation, operation, and outcome. The formation stage comprises the formulation of an alliance strategy, selection of partners, negotiation of contractual provisions, and setting-up of the alliance. An alliance is a viable option only if it is substantially beneficial after the partial integration with another firm; otherwise, it should be avoided because of its managerial complexity. In selecting the alliance partner, the ideal would be to seek one with strategic compatibility, complementary resources, a certain level of interfirm trust, and a mutual understanding of value creation and value appropriation. A tentative partner selection would be followed by
the negotiation of the alliance agreement. Here, the choice of an appropriate governance structure is a key feature. The next step is, of course, setting up the alliance. The partners should not pursue predominant managerial control in the alliance; rather, more attention should be given to committing the best personnel, keeping alliance personnel for a long term, and the blending of their cultures. The second of the three stages is that of operation, in which the negotiated agreement is implemented and the partners begin working together. Here, the partners should always regard cooperation and competition as dual roles in a strategic alliance. Cooperation should be emphasized in operational areas, while competition should mostly be capitalized through interfirm learning. The third stage is that of outcome, where the alliance performance is evaluated, resulting in either some degree of stabilization or a decision to modify arrangements. A comprehensive evaluation of an alliance’s performance should use various kinds of measures, such as financial indicators as well as the state of the alliance (e.g., harmony, morale, productivity, and learning).

Importance
The complexities of managing alliances are well known and can be appreciated from the roles, discussed below, of critical factors such as resources, risks, trust, control, and internal tensions.

Resources
Alliances enable partners to gain access to each other’s resources temporarily and with more flexibility than mergers and acquisitions. The two related but distinct motives for a firm to consider forming a strategic alliance are to obtain resources of others and to retain and develop its own resources by combining them with others’ resources. Resources are sometimes classified as property-based resources, which have clear property rights and in which a firm’s ownership is absolute and protected by law, and as knowledge-based resources, which cover tacit skills and knowledge involved in technological, managerial, and organizational resources. The management of resources includes optimally using one’s existing resources, developing new resources, protecting one’s resources, and gaining access to other firms’ resources. Hence, the key challenge for firms in strategic alliances is effectively protecting themselves from losing critical resources at the same time as they attempt the fullest use of their contributed resources.

Risks
There are many types of risk in strategic alliances, arising not only from external sources such as competition, economic fluctuations, environmental factors, and government policy, but also internal sources such as lack of competence and the deceitful behavior of the partners. The concept of risk in alliances can be separated into two types—relational risk and performance risk. Relational risk is the probability that a partner firm does not commit itself to the alliance in a cooperative manner, leaving open the possibility that the partner may behave opportunistically, thereby undermining alliance performance. Perceived relational risk is high when it is difficult to protect one’s proprietary know-how, the pay-off inequity expected by partners is high, and the number of previous alliances is small. Performance risk is the probability that the objectives of the alliance may not be achieved, given full interpartner cooperation. In other words, performance risk is the probability that an alliance may fail even when partner firms commit themselves fully to the alliance. Perceived performance risk is high when there is a shared R & D component, cross-border alliances are involved, and the nonrecoverable investments are high. Whereas relational risk is the risk of unsatisfactory interfirm cooperation, performance risk is all other factors that impact adversely on alliance performance.

Trust
The concept of trust has special significance in the dynamics of alliance management because of the central role of a cooperative relationship between the partners. Trust has been defined in terms of being vulnerable to the actions of trusted others in situations that involve risk. According to a popular formulation, trust has two dimensions—namely, goodwill trust and competence trust. Goodwill trust refers to the good faith, good intentions, integrity, and reputation for fair dealing of the partner. It reduces the perceived likelihood of opportunistic behavior occurring, which in turn contributes to low transaction costs. Competence trust refers to the expectation of competent performance. Competence
Strategic Alliances

is based on the various resources and capabilities of a firm. Firms that have been successful in previous alliances tend to build a reputation for competence.

Interpartner trust can be developed in alliances in several ways, including from risk taking, equity preservation, communication, and interfirm adaptation. Trust and risk taking are believed to form a reciprocal relationship: Trust leads to risk taking, and risk taking, in turn, buttresses a sense of trust, given that the expected behavior materializes. Trust can also be developed from equity preservation, as a high level of trust tends to encourage partners to tolerate short-term inequity and exercise mutual forbearance. Given a certain trust level among partners, extended periods of inequity will create tension and strain existing trust. Communication can generate trust by ironing out the potential kinks in daily operations, to make for a satisfactory working relationship. Last, trust may be fostered by interfirm adaptation. Being flexible enough to respond positively to the changing needs of a partnership demonstrates that the firm not only values the alliance but is also willing to make considerable efforts toward a desirable accommodation.

Control

Control is generally viewed as a process of regulation and monitoring for the achievement of organizational goals. The more critical control mechanisms in strategic alliances are goal setting, structural specifications, and cultural blending. Establishing specific and challenging goals in organizations ensures discipline of both partners to strive cooperatively in operations. Structural specifications, including rules and regulations, consist of both ex ante and ex post deterrents designed to minimize partners’ incentives for opportunism, deceit, and misbehavior. As to cultural blending, it is generally accepted that managing alliance culture is a challenging task because it is about blending and harmonizing two different organizational cultures.

Internal Tensions

One of the reasons for the high failure rates of strategic alliances is the difficulty of managing the unique complexities of alliances. An explanation of this inordinate instability lies in the tricky problem of having to balance, on a continuing basis, the interactions among the partners in terms of the dialectical forces or internal tensions within an alliance. These opposing force pairs are cooperation versus competition, rigidity versus flexibility, and short-term versus long-term orientation. Cooperation refers to the pursuit of mutual interests and common benefits in the alliance, whereas competition is the pursuit of one’s own interest at the expense of others and private benefits in the alliance. Rigidity is the degree of connectedness of partner firms with each other in the alliance, and flexibility is the degree to which partner firms are able to modify the structural arrangements in the alliance to adapt to changing conditions. A short-term orientation is evident when alliances are viewed as transitional in nature, with a demand for quick and tangible results, whereas a long-term orientation is manifest when alliances are considered as at least semipermanent entities so that more patience and commitment are exercised.

When, in the course of managing an alliance, there is a movement toward the dominance of competition, flexibility, and a short-term orientation, the likelihood increases that the alliance will tend toward dissolution, because these forces mimic the attributes of market transactions. In this case, the internal transactions of alliances are effectively transferred to the marketplace. In the reverse situation, if the dominance encompasses cooperation, rigidity, and a long-term orientation, all associated with hierarchies, an alliance will tend toward a merger or acquisition. Alliance transactions, then, would in effect be transferred to a hierarchy or single organization. The continuing challenge in managing alliances is to reasonably preserve a balance among the internal tensions while carrying out the usual transactions.

T. K. Das

See also Interorganizational Networks; Resource-Based View of Firm; Theory of Cooperation and Competition; Trust

Further Readings


**STRATEGIC CONTINGENCIES THEORY**

Strategic contingencies theory is a theory of intraorganizational power that was proposed in 1971 by some members of the Aston group: David Hickson, Bob Hinings, C. A. Lee, Rodney Schneck, and Johannes Pennings. The theory assumes that subunits, or departments, within a firm necessarily exert power over one another because the organizational division of labor creates strategic contingencies. Control of these contingencies serves as the basis of intraorganizational power. This entry describes the fundamentals of the theory, support for the theory, a critique, and a comparison of the theory to resource dependence theory. It concludes with an assessment of the theory’s importance.

**Fundamentals**

An assumption of the theory is that the organization is an open system of interdependent subunits (i.e., intraorganizational units) that rely to varying degrees on one another to complete the organization’s task. The underlying concept of power, based on work by Richard Emerson, views power as derived from structural relationships that create situations of dependence and power. Subunits can be dependent on each other to varying degrees. However, the most dependent subunit is also the least powerful subunit.

A contingency occurs when one subunit’s activities are affected by the activities of another subunit. A contingency becomes strategic when it is critical to workflow interdependencies among subunits and, consequently, affects the power distributions in an organization. A subunit can gain control over a strategic contingency if it is able to help other subunits cope with uncertainty; if it is non-substitutable, or not easily replaced; and if it is pervasive, or central to the other subunits. Each of these three conditions is necessary but not sufficient for the control of strategic contingencies.

Uncertainty is defined by the Aston group as a lack of information about future events that renders alternatives and their outcomes unpredictable. It is a “raw situation” that often must be dealt with so that the subunit can execute its tasks. There are a number of ways that a subunit can reduce uncertainty and help other departments cope with uncertainty:

- **Prevention:** For example, a marketing department provides a steady stream of orders so there is no fluctuation in the operations of the production department.
- **Information:** For example, a marketing research department provides forecasts that predict fluctuations.
- **Absorption:** For example, a marketing department adopts novel selling approaches if there is a problematic drop in sales.

A subunit becomes non-substitutable if there are no other alternatives available that can ensure the effective performance of its activities. This could be because the subunit’s staff members are so highly trained or knowledgeable about the organization’s processes, needs, or environment that a replacement within or outside the organization cannot easily be found.

Subunit centrality is defined by the Aston group as the degree to which its activities are interlinked within the organization. A highly central subunit is both pervasive and immediate: It is pervasive if it is connected to the activities and workflows of many other subunits in the organization. It is immediate if the operations of the organization would be quickly and detrimentally affected if the subunit’s activities were to cease.

Although subunits may display varying degrees of coping with uncertainty, non-substitutability and centrality, Hickson and his colleagues assumed that a multiplicative combination of the three are necessary to gain control of strategic contingencies. The extent to which a subunit controls the strategic contingencies of other subunits can be used to explain different levels of power.
Routinization may reduce intraorganizational power in two ways. When routinization promotes coping with prevention, uncertainty can be avoided or reduced. Routinization by coping with information or absorption encourages standards that make it easier to replace a subunit and, consequently, make it more substitutable.

**Importance**

Hickson and his colleagues reported the first test of strategic contingencies theory in 1974 using a sample of 28 subunits in seven small manufacturing organizations. They operationalized their constructs using questionnaire, interview, and archival data and recognized three types of power: position, perception, and participation. In each organization, they assessed the relative power of the engineering, marketing, production, and accounting departments, as well as their ability to cope with uncertainty, non-substitutability, and centrality. With few exceptions, the independent variables positively correlated to the power measures based on perception and participation (though no significance levels were reported). In their sample, the production subunits had the most power and the accounting subunits had the least. Their theory explained 24 of the 28 subunit power rankings. Different subunits apparently obtained power by using different strategies that varied over time.

Subsequent tests of the theory have been limited to less than a dozen published studies. However, the context of those studies has been rather wide-ranging. That is, the theory has been tested in Canadian, American, Singaporean, Israeli, and multinational organizations in a number of settings: manufacturing firms; universities and colleges; medical clinics and information-intensive firms (i.e., marketing and sales, insurance, and transportation firms). Most of the studies used small samples with 10 or fewer organizations. The theory has been supported to some extent in all studies. In virtually all tests of the theory, at least two of the three conditions for power (i.e., coping with uncertainty, non-substitutability, and centrality) were related to one or more operationalizations of power. The theory has been used by disciplines other than management to assess the power of information systems departments, libraries, and brand managers.

Only two sets of studies explored power over time. One noted temporal inconsistencies in the theory. In particular, Ran Lachman found support for the theory when he looked at each of two temporal periods separately. However, when he looked across time, power was not found consistently to be a function of any of the theory’s three major independent variables measured 2 years earlier. He found that those subunits that had high power tended to hold on to it, while those that had low power did not necessarily remain powerless. Hence, Lachman concluded that the ability to cope with uncertainty, non-substitutability, and centrality are strongly associated with power, but they may not be determinants of power.

**Critique**

The theory has a number of strengths. First, it is among the earliest to adopt a systemic view of intraorganizational power. In particular, it considers organizations to be integrated systems of complexly interrelated subunits whose activities are coordinated to achieve the organization’s objectives. Second, it is parsimonious. Its developers focus on structural sources of power and not on either the nature of social relationships or the psychological attributes of members of those organizations. It incorporates only those constructs hypothesized to affect power by their contribution to the control of contingencies exercised by a subunit. Third, the developers went to considerable effort to define constructs and propose multimethod operationalizations that could be used by others to test the theory.

While the authors did an excellent job overall in defining strategic contingencies theory, they did not adequately operationalize what is meant by “control of a strategic contingency.” Consequently, others who have sought to test the theory have struggled with how to incorporate and measure this important construct in their studies. Several, including Lachman and Sze Sze Wong and colleagues, introduced constructs called **criticality** and **knowledge criticality**, respectively. However, these constructs do not really address the nature of control of strategic contingencies. Carol Saunders operationalized control of strategic contingencies and concluded that it should be considered as a moderator in the relationships between power and coping with uncertainty, non-substitutability, and pervasiveness. Her findings have not been replicated, and an essential aspect of the model remains unclear after several decades of testing.
Further, the theory is a variance model that does not adequately address process issues. This could be why Lachman did not find support for the model when looking across temporal periods. To their credit, the theory’s developers did attempt to show how the three basic conditions could be used to capture power.

**Comparison With Resource Dependence Theory**

Often, strategic contingencies theory and resource dependence theory are cited together as theories of intraorganizational power. Jeffrey Pfeffer himself treats the two theories as “variants of each other.” Graham Astley and Edward Zajac, however, argue that the two theories actually have different power bases. The strategic contingencies theory is based explicitly in dependencies resulting from task processes created by the division of labor. Power is derived from the structure of relationships that constitute an organization’s system of work flow interdependencies. As such it is built on a rational model in which subunit goals are subordinated to those of the organization. In contrast, resource dependence is a coalitional model in which subunits participate in exchanges that reflect their varying preferences and interests. Dependence is generated through transactions or exchanges of resources between organizational subunits. These resources may be used in performing tasks, but the resource dependencies do not parallel work flow interdependencies. Strategic contingencies theory is not based on exchange since the structural dependencies (i.e., task performances and roles) created by division of labor are not transferable resources using standard definitions of resources.

At the time that this entry was written, a search by Google Scholar indicates that the theory has been cited by 1,224 articles. That’s not bad. However, the seminal work of resource dependence theory which appeared around the same time frame has 13,375 citations. Why has one of these seminal works been cited 11 times more than the other? Most likely there are a variety of factors. One might be that resource dependence theory was described in more detail in a widely read book. Or it might be that the resource dependence theory covers a broader spectrum of types of power. It can be applied to departmental, organizational, and interorganizational levels of analysis since resources can be exchanged at each of these levels. In contrast, strategic contingencies theory has been limited to the departmental level, probably because of the requirement that it focus on interdependencies created by work flows. A final reason might be that the loose coupling inherent in resource dependence theory might make it more suitable for today’s highly dynamic environment than strategic contingencies’ more tightly coupled model.

**Practical Application**

It is not obvious that the theory has influenced managers directly. It has, however, been applied by management scholars to understand power distributions in a range of organizations around the globe. This suggests that the theory still has salience for researchers, but it has not been well-leveraged by practitioners. Practitioners can use the theory to develop strategies for gaining and maintaining power in dynamic environments. Using the theory, practitioners can position their departments to perform important and not easily imitable tasks needed by other departments in their organization, or even by other companies within their complex corporate networks.

**Carol Saunders**

**See also** Contingency Theory; Environmental Uncertainty; Resource-Based View of the Firm; Resource Dependence Theory

**Further Readings**


**STRATEGIC DECISION MAKING**

Strategy is about making decisions—decisions such as which industry to enter, how to position the firm and its products, which resources to develop or to buy, who to hire, and which organizational structure to use. It is no surprise, then, that much research within the strategy field has studied how strategic decisions are made and how they can be improved. The literature addressing these two questions falls under the rubric of strategic decision making (SDM). This literature focuses on the processes leading to a decision (e.g., how different opinions are taken into account) rather than on the content of the decision (e.g., which strategy framework to use to devise the firm’s positioning). This entry presents some of the fundamental concepts and tools studied in SDM and ways in which they might be applied by managers.

**Fundamentals**

**Nature of SDM**

Before discussing the research on SDM, it is fair to ask how strategic decisions differ from other kinds of decisions, thus addressing why SDM research is useful and necessary. To do so, we start by looking at the two main bodies of literature that inform SDM—decision theory and the psychological research on judgment and decision making—and show that one must be careful when interpreting findings in the context of SDM because of several characteristics inherent to strategic decisions.

Decision theory is a mathematical approach to making decisions. According to this theory, the decision maker must make a choice among various actions \( a \in A \); the world can be in one of many states \( x \in X \), and each of these states has a probability of occurring, which may depend on the chosen action \( P[x|a] \). Finally, the decision maker experiences a payoff or utility, depending on the state of the world and the decision taken \( U(x,a) \). The goal of decision theory is to select the action that maximizes the expected utility \( \max_a E[U(x,a)|a] \). However, strategic decisions are difficult to analyze using this approach because (1) strategic decisions are usually made under ambiguity (the probabilities \( P[x|a] \) are unknown); (2) the set of possible actions \( A \) is not known a priori but it is discovered “on the way” via a search process, usually over a vast solution space; (3) strategic decisions are usually not made by a unique decision maker but by a group of people, such as the top management team, board of directors, or a chain of employees along which a proposal is passed and evaluated, so there may not be one utility function \( U(a,x) \) but many; (4) because there may be several utility functions, decisions are made by a process fraught with politics and power, considerations out of the scope of decision theory; and (5) even if there is agreement regarding the utility function, the different decision makers may have different assessments about the possible actions, states of the world, and probabilities, so the problem of how to best aggregate these perspectives becomes paramount.

The other body of literature that informs SDM is the psychological research on judgment and decision making. This research has been highly successful in identifying the ways in which humans systematically deviate from the perfect rationality benchmark set by decision theory. The research on judgment and decision making has mostly been developed via lab experiments involving test subjects facing simple choices. The applicability of the judgment and decision-making literature to SDM is hampered by a number of additional issues: (1) Strategic decisions are unstructured, nonroutine, high stakes, and difficult to reverse, which is quite different from the typical decision experiments used in the judgment and decision-making literature. (2) Unlike most decisions in a lab setting, strategic decisions are complex, involving many subdecisions and constraints, and thus the task of the decision maker is to make some key architectural choices that will determine waves of other interdependent choices. (3) Many problems are unclear or ill-defined, and thus the formulation of the problem (usually a given in the judgment and decision-making literature) becomes central; (4) because of their complex nature, strategic decisions are difficult to implement, thus SDM pays particular attention to the determinants of
implementation, which is outside the scope of most studies on judgment and decision making; and (5) strategic decisions are made within organizations, thus notions of power, incentives, expertise, and organizational structure, conditions difficult to replicate in lab settings, play important roles.

These differences and limitations of scope and focus reveal some of the distinctive characteristics of strategic decision making and suggest that conceptual frameworks are necessary beyond those provided by either decision theory or by studies on judgment and decision making.

Some Factors Influencing SDM

Following the work of Herbert Simon, researchers generally agree that SDM is a process with three main stages: (1) identifying a problem, (2) developing potential solutions to the problem, and (3) selecting (ideally) the best solution. One implication of this process is that once a problem has been identified (e.g., how should our firm expand internationally to maximize profits?), the chances of making a successful decision depend on coming up with many potential solutions and on having effective tools for evaluating these solutions. Perhaps the main point of agreement among SDM researchers is that how decisions are made impacts the outcome of these decisions. Accordingly, the rest of this section summarizes how different characteristics of the individuals and the processes used to make strategic decisions affect the outcome of these decisions. The summary is structured according to increasing levels of analysis: It progressively moves from individual-level to organizational-level characteristics. Given that this is a huge literature, this brief summary cannot do justice to all the findings, so priority is given to widely accepted findings with direct managerial application.

The role of individual biases. For most of its history, the human brain has evolved to deal with the daily tasks of hunter-gatherers, not with the challenges of managing a multibillion dollar corporation. Thus, it is not surprising that untrained individuals make systematic errors when dealing with complex strategic decisions. Some of the biases that are most pervasive in SDM are overconfidence (being overly optimistic), availability (focusing on data that has recently been observed), and confirmation (favoring evidence that supports the decision maker’s preferred theory).

The role of the information aggregation process. Making good strategic decisions involves much information, all of which is unlikely to be available in just one mind. For instance, because of their different backgrounds, managers may assess a given strategy differently. Further, managers may have different ideas about what strategies are available to the firm, and some strategies may be discovered only if the knowledge of different managers is combined. All this emphasizes how relevant it is to aggregate information that resides in the minds of different decision makers. Otherwise, some valuable strategies may be inaccurately analyzed or not analyzed at all.

The role of organizational structure. One key characteristic of organizational structure that affects SDM is the degree to which an organization is centralized or decentralized. In a centralized structure, top management makes decisions, communicates them to the rest of the organization, and monitors their implementation. In a decentralized firm, top management lets the strategy emerge from different parts of the organization by acting as a facilitator or sponsor. Centralization is useful when decisions are interrelated, when information from disparate sources must be aggregated to make good decisions, and when a few high-stakes decisions are relevant. Decentralization is helpful when the information and decisions of different parts of the organization are not interrelated, when decisions must take into consideration local information, and when many fast-paced decisions must be made. Another way in which centralization and decentralization affect SDM is in the types of projects that get to be accepted. In a centralized firm, projects must pass several screens before being accepted (e.g., the whole chain of command) limiting errors of commission, while in a decentralized firm, decisions are accepted locally (e.g., by the engineer and her closest supervisor) limiting errors of omission. The choice of which structure to use depends on which type of error is costlier. For instance, decentralization may be the right structure for organizations where innovation is important (e.g., R & D labs), because accepting a few bad projects may be a low cost to pay when compared to the cost of missing many good projects.

The role of politics. Because strategic decisions are usually made by multiple individuals who may have competing interests, conflict may emerge among
the decision makers. When there is conflict, decision makers usually engage in political tactics (such as coalition formation, bargaining, agenda control, and strategic use of information) and the preferences of the most powerful tend to win. Since the preferences of the most powerful do not necessarily reflect what is best for the organization, political conflict constrains the search process and thus decreases the effectiveness of SDM. Additionally, because most people dislike politics, politics increase frustration and animosity among managers, which further reduce organizational effectiveness.

**Importance**

Because the most important job of top executives is to make strategic decisions, the study of SDM can have vast implications. Even small improvements in a few decisions can have a large impact on outcomes such as profitability, innovation, and economic development. The following addresses some of the ways in which managers might productively use insights from the SDM literature at various levels of the organization.

**Individual level.** Managers should be on the watch for biases and should put in place mechanisms to avoid these common errors of individual judgment. Techniques aimed at minimizing the effect of individual biases include the following: (1) Use formal analysis tools such as decision trees, influence diagrams, and mathematical models (e.g., spreadsheets, simulations, game-theoretic analyses). (2) Use frameworks (such as SWOT or Porter’s five forces) and checklists. (3) Take an outsider’s perspective; try to remove the actual decision maker from the narrow confines of their situation and consider how an outsider would make the decision. (4) Educate the decision makers on SDM, statistical thinking, and decision-making biases.

**Group level.** Some of the techniques aimed at effectively combining information across individuals include the following: (1) Expand the pool of ideas. Before delving into the details of a given decision, spend time and resources on expanding the set of potential options. Tools here include brainstorming sessions, scenario planning, the Delphi method, asking decision makers to “consider the opposite,” using experts, and crowdsourcing. (2) Increase the critical analysis of ideas. Tools here include assembling a team with a diverse set of expertise, increasing the number of decision makers, introducing outside experts, designating a devil’s advocate, and encouraging an open and frank communication atmosphere that encourages cognitive (not political) conflict.

**Structural level.** In general, organizational structure offers a powerful way to “hard-wire” decision-making processes in the organization. For example, if the goal is to minimize errors of commission, then employing centralization, a hierarchical organization structure, and granting veto power to some key parties seem good ideas. If the goal is to increase the number of alternatives considered before making decisions, it could make sense to create a planning department, institute the role of devil’s advocate, and create a strategic committee that includes people from different parts of the organization. In addition, a “perfect” decision is worthless if it is not well implemented. Thus, implementation is inextricably linked to SDM. One finding here is that successful implementation is more likely when the implementers agree with the decision being implemented. Thus, mechanisms such as consensus building and selecting implementers from the decision-making team improve the chances of success.

Felipe A. Csaszar

See also Behavioral Theory of the Firm; Brainstorming; Decision Support Systems; Groupthink; High-Reliability Organizations; Managerial Decision Biases; Organizational Structure and Design; Strategy and Structure

**Further Readings**

Strategic Entrepreneurship

Strategic entrepreneurship (SE) is a newly recognized field that draws, not surprisingly, from the fields of strategic management and entrepreneurship. The field emerged officially with the 2001 special issue of the Strategic Management Journal on “strategic entrepreneurship”; the first dedicated periodical, the Strategic Entrepreneurship Journal, appeared in 2007. SE is built around two core ideas: (1) Strategy formulation and execution involves attributes that are fundamentally entrepreneurial, such as alertness, creativity, and judgment, and entrepreneurs try to create and capture value through resource acquisition and competitive positioning. (2) Opportunity seeking and advantage seeking—the former the central subject of the entrepreneurship field, the latter the central subject of the strategic management field—are processes that should be considered jointly. This entry explains the specific links between strategy and entrepreneurship, reviews the emergence and development of the strategic entrepreneurship field, and discusses key implications and applications.

Fundamentals

The links between strategy and entrepreneurship can be understood in several ways. First, entrepreneurs need strategy, across all stages of product and firm life cycles, and insights from strategic management about capturing value through resource acquisition, industry positioning, capability development, the creation of real options, and the like are critical to our understanding of the emergence of new products, firms, and industries. In other words, the domain of SE includes those entrepreneurial phenomena that can be best explained and understood using concepts normally associated with the field of strategic management. Second, strategic management theory can be improved by thinking about the origins of competitive advantage. Resource attributes such as value, rarity, imitability, and substitutability do not exist ex ante, but must be created or discovered through human agency. Entrepreneurial action is thus prior to value creation and capture. Hence, there are obvious gains from trade between the two fields. SE in fact draws opportunistically on both fields.

A basic idea of strategic entrepreneurship is that concepts from strategy designed to answer the question, Why do some firms outperform others? may apply in a more entrepreneurial setting. (By entrepreneurial here we mean not only the creation of new firms and the introduction of new products but creativity, alertness, and discovery more generally.) The dependent variable in strategic management research is usually taken to be sustained competitive advantage—that is, a firm’s ability to create and appropriate more value than the competition on a sustained basis. This is often addressed in terms of established economic theories of applied price theory, industrial organization theory, game theory, and bargaining theory. In fact, most modern strategic management theory (whether resource-based theory or the positioning approach) is based on a logic of “competitive imperfection”: ultimately, some deviation from the ideal of the perfectly competitive model, leading to imperfect factor and/or product markets, explains strategy’s central dependent variable—sustained competitive advantage. Indeed, the latter is very often taken as synonymous with earning rents in equilibrium. Various lists have been compiled of the criteria that resources must meet to yield rents in equilibrium. However, there is a retrospective character to such lists: Their main function is to perform a kind of sorting among the firm’s resources to see if any conform to the criteria.

SE research typically takes the creation and capture of firm value as the phenomenon of interest. This allows SE scholars to use constructs, theories, and methods well established in the two fields. For example, among the antecedents of value creation and capture are established variables such as entrepreneurial orientation and dynamic capabilities.
However, focusing on value creation and capture implies that SE research is not committed to the strategy scholar’s traditional emphasis on sustained competitive advantage; wealth creation may be a matter of discovering and exploiting a few large, but short-lived opportunities, or it may be a matter of many small, long-lived (“sustainable”) opportunities. Competitive advantages may thus be fleeting and need to be created and created anew. SE asks how firms can use strategic intent to continuously leverage entrepreneurial opportunities for advantage-seeking purposes.

There is currently no list of key assumptions made by those engaging in strategic entrepreneurship research. However, some of these assumptions include the following:

- Wealth creation is not automatic but results from the creative actions of individuals.
- Economic action takes place under conditions of Knightian uncertainty.
- Under Knightian uncertainty, decision making is poorly described by the models of rational, utility-maximizing agents borrowed from mainstream economics. Judgment, satisficing, biases and heuristics, experimentation and learning, and the like are critically important.
- Entrepreneurship involves the assembly and deployment of heterogeneous capital resources, which may (but does not necessarily) result in the establishment of a new firm.
- Resource characteristics are not given, *ex ante*, but must be created or discovered through entrepreneurial action.

Building on these assumptions, strategic entrepreneurship can then be conceived as the study of individuals building economic institutions to create wealth under conditions of Knightian uncertainty, where traditional profit-maximizing decision-making criteria may be replaced with other kinds of decision rules. This definition of this specialized field is both strategic and entrepreneurial, focuses both on individuals and institutions, is not limited to the study of just firms as an institutional form, focuses on the centrality of wealth creation, and addresses the challenges associated with forming opportunities whose exploitation can lead to wealth. Like any good definition, this proposed definition of the field of strategic entrepreneurship also eliminates certain phenomena from the field. For example, decision making under risk—an undoubtedly important topic—is not included in this proposed definition. Also, firms that are formed for reasons besides the creation of wealth are not included in this definition—although it is important to recognize that this does not necessarily eliminate not-for-profit firms or social entrepreneurship. Whether this more integrated approach to the definition of strategic entrepreneurship will emerge as the dominant definition is yet to be seen. However, as a matter of theory and discipline development, the integrated approach seems to hold more promise than the other approaches discussed here.

**Evolution**

Anticipations of SE can be found in several earlier contributions. For example, Edith Penrose coined the notion of the firm’s “subjective opportunity set,” the set of opportunities the firm’s top-management team perceives and believes it can seize, and Richard Rumelt linked entrepreneurship and the creation of competitive advantage. Moreover, work on corporate entrepreneurship, corporate venturing, organizational learning, innovation research, hypercompetition, real options, and dynamic capabilities theory each in various ways anticipates SE theory. Yet those streams needed to be explicitly pulled together and focused. Understood as a relatively concerted research effort, SE is a very young field that has existed for only a decade or so.

Most strategic management theory has until recently been surprisingly silent about where competitive advantage comes from. However, over the last decade or so, building, accumulating, transforming, managing, learning about, combining, and recombining resources has become a central theme in strategic management. Thus, scholars increasingly emphasize, following Joseph Schumpeter, the inherently temporary nature of competitive advantages. This focus has substantial support in the relevant empirical literature, which broadly suggests that firm-specific returns that can be linked to specific competitive advantages regress to the industry mean, and that, moreover, the pace of regression has accelerated over the last few decades. A trade-off arises under these circumstances, because on the one hand, hypercompetition provides incentives to
accelerate investments in discovering new entrepreneurial opportunities that can be turned into temporary advantages, while on the other hand driving investment costs up (because of time-compression diseconomies).

Thinking on the origins of competitive advantage was also furthered by real options theory, which has influenced strategic management scholars since in the 1990s. The reason is not difficult to understand: Strategic management has choices between flexibility and commitment at its very core. Real options allow strategic managers to take specific actions now or postpone them to a future point in time. They thereby provide flexibility in uncertain markets. Strategic managers may invest in a host of different real options to accommodate speedy and flexible reaction to changes in the environment. The link to firm-level entrepreneurship and competitive advantage is straightforward: As environments change, so do competitive advantages. Given that future competitive advantages are highly uncertain, it may pay to continue developing and keep several options open. Internal corporate venturing is a means to such option creation. When uncertainty resolves, the firm can then call the option most likely to lead to an advantage in the relevant environment. However, the most direct precursor of SE is probably the “dynamic capabilities” view associated with David Teece and colleagues. This view argues that superior performance comes from a firm’s capacity to change its resource base in the face of Schumpeterian competition and environmental change. Dynamic capabilities are defined as the firm’s ability to integrate, build, and reconfigure internal and external competences to address rapidly changing environments. Importantly, dynamic capabilities reflect past learning processes, as they are a learned pattern of collective activity through which the organization systematically generates and modifies its operational routines in pursuit of improved performance. Superior dynamic capabilities enable firms to adapt more quickly and effectively to a changing business environment, creating a stream of temporary competitive advantages over time. More or less explicitly, these approaches emphasize the value of putting entrepreneurship into strategic management.

Seeing it from the other side, the notion that concepts from strategic management can inform research and practice in entrepreneurship is, perhaps, best exemplified in some of the most popular undergraduate entrepreneurship textbooks. In many of these books, the link between strategic management and entrepreneurship is almost explicit. For example, these textbooks often recommend that entrepreneurs need to begin with a purpose, an idea very close to strategic management’s concept of a mission. In analyzing industries to identify opportunities and threats, these entrepreneurship texts often advise using the “five forces framework” and other tools that were originally developed in strategic management. The identification of entrepreneurial strengths applies resource-based logic; the strategic alternatives available to a firm parallels the list of “generic strategies” found in most strategy textbooks.

Of course, there is much that can be said about importing well-developed theories and tools from a discipline such as strategic management into the study of entrepreneurship. After all, the history of strategic management has been to import theories and tools developed elsewhere—primarily economics—and then to adapt them to strategic management. And this model has served the field of strategic management well. However, this first approach to defining strategic entrepreneurship essentially subsumes this new field as a special case of strategic management and assumes away any special attributes that entrepreneurship—as a phenomenon—possesses. This seems problematic since the study and practice of entrepreneurship seems to involve issues, including, for example, decision making under Knightian uncertainty, that have not received much attention in the strategic management literature.

**Importance**

*The Entrepreneurial Foundation of Competitive Advantage*

Although many of the conceptual building blocks used in SE have been operationalized and used empirically in either the entrepreneurship or strategic management literature, as a distinct research field, SE has yet to produce its own robust literature of empirical tests of dominant conceptual models and their main mechanisms. Conceptually, SE has been rather quick to converge on an overall theoretical model with wealth creation as its dependent variable; however, lower-level causal mechanisms underlying this relationship are not clearly defined and operationalized. Appropriate tests of the
underlying mechanisms of SE would appear to require longitudinal examination of how exactly firms’ strategic intent affects their ability to transform the recognition of opportunities into wealth. What are the underlying mechanisms? Specifically, what is the interplay between organizational members with specific abilities and skills, interacting within an administrative framework (broadly conceived), that make some firms capable of continuous wealth creation? This calls for an approach to SE that highlights organizational design and behaviors in a multilevel framework. Some, including the authors of this entry, view the absence of such a framework as a major gap in extant SE research.

The strategic entrepreneurship literature can also be organized around a series of research questions or research topics of interest to both entrepreneurship and strategic management scholars and that are, so far at least, understudied. This seems to be the approach to defining the field adopted by Michael Hitt and Dan Schendel in their editorial essay announcing the formation of the Strategic Entrepreneurship Journal. In particular, these authors identified 10 topic areas that overlap strategy and entrepreneurship that deserve further study. Examples of these topic areas include the study of creativity, imagination, and opportunities; the study of risk and uncertainty; the study of the behavioral attributes of entrepreneurship; and the study of the social role of entrepreneurship. However, while defining strategic entrepreneurship in this manner has certain advantages—not the least of which is to establish the editorial boundaries of a new journal as widely as possible—it ultimately has limitations. Indeed, defining the field in this way in an important sense avoids defining the field—it provides little or no guidance to young scholars interested in contributing to an emerging field but is unclear as to what is and is not included within those field boundaries.

Another way to think about the literature begins by recognizing that strategy and entrepreneurship have several things in common. Among these are emphases on wealth creation, decision making, operationalizing decisions, and assembling resources to create wealth. Such commonalities suggest that these two fields could inform one another. However, despite these common features, there are important differences between the two fields that suggest possible points of conflict but also possible points of integration. For example, while both fields focus on decision making, strategic management looks at decision making under conditions of risk, whereas entrepreneurship also looks at decision making under Knightian uncertainty. Also, although both fields focus on wealth creation, strategic management theory generally adopts the assumption that opportunities to create wealth already exist and the task facing managers is how to best accomplish this. Entrepreneurship, on the other hand, focuses on the processes by which opportunities are formed.

This way of thinking about strategic entrepreneurship imagines a robust dialogue between the two fields, where questions that are important in strategy but difficult to answer given current theory—for example, where does resource heterogeneity come from?—can be addressed using concepts and ideas taken from entrepreneurship scholars, and vice versa.

Practical Implications

SE has emerged over the last decade as a new focus in the intersection between the individual-centric and start-up-focused entrepreneurship field and the strategic management field with its traditional emphasis on established firms and firm-level performance variables. The defining characteristic of the field is a sustained attempt to link opportunity seeking (i.e., opportunity discovery and evaluation) with advantage seeking—an endeavor that is related to work on dynamic capabilities, hypercompetition, and real options. Like these research streams, SE appears to have dropped strategic management’s search for the conditions of sustainability of (any single) competitive advantage and instead focused on the entrepreneurial pursuit of a string of temporary advantages, often encapsulated under the label of “wealth creation.” SE research has identified a large set of variables that may drive such firm-level entrepreneurship, for example, borrowing (from strategic management) notions of “strategic intent” or (from entrepreneurship) “entrepreneurial orientation.”

We have argued, however, that SE is still mainly a rather loose amalgam of a number of insights from strategy and entrepreneurship. Whether it will morph into a distinct and cumulative research stream seems dependent on the development of clear(er) research models around which research can build and also on gradually building a body of distinct SE empirical knowledge. The foregoing discussion
Strategic Flexibility

offers what we think are important components of such a development. Is the emergence of SE a positive development? Some scholars have expressed concern that SE represents a takeover attempt by a more developed field (strategic management) against a less developed counterpart (entrepreneurship). We see things in a more positive light, because each field has much to learn from the other. Consistent with this, the modern manager would be advised to think carefully about entrepreneurial alertness, innovation, and judgment, even within the context of existing practices, products, and business units. Uncertainty and novelty are hardly the domain of a few industries or business practices but are ubiquitous in an advanced industrial economy. Likewise, managers of new and small firms must consider the core questions of strategic positioning, organizational design, and contracting that are central to processes of creating and capturing economic value. The strategist needs the entrepreneur, and the entrepreneur needs the strategist.

Peter G. Klein, Jay B. Barney, and Nicolai J. Foss

See also Business Policy and Corporate Strategy; Competitive Advantage; Dynamic Capabilities; Entrepreneurial Opportunities; Entrepreneurial Orientation; Hypercompetition; Resource-Based View of the Firm

Further Readings


STRATEGIC FLEXIBILITY

The idea of strategic flexibility has been discussed in various areas, including, economics, strategic management, organization theory, decision analysis, and information technology. Strategic flexibility can be defined as an organization’s capability to identify major changes in the external environment (e.g., introduction of disruptive technologies), to quickly commit resources to new courses of action in response to the change, and to recognize and act promptly when it is time to halt or reverse such resource commitments. Here, strategic flexibility is discussed in relation to a fundamental dilemma managers are faced with: commitment versus change. Understanding the dilemma and how to deal with it and maintain strategic flexibility is critical for managers.

Fundamentals

Key Ideas of Strategic Flexibility

Strategic flexibility is composed of three key components: attention, assessment, and action. To the extent that an organization and its top managers are (1) paying attention to information that indicates change of the external environment, (2) objectively assessing the implication of the information, and (3) timely initiating an action corresponding to the assessment of the information, an organization is likely to avoid making too slow or too hasty decisions.

Under a rapidly changing and globalizing environment, it is increasingly important for an organization to change its strategy and adapt to new environments quickly. However, organizations,
particularly those that have experienced success, are often slow to respond to change because of organizational inertia. In this sense, strategic flexibility is frequently associated with ideas such as agility, quickness, and responsiveness.

However, quickness per se will not provide an organization a competitive advantage. New initiatives encounter various types of problems and challenges in their implementation that must be overcome for success to be achieved. Only with strong commitment and patience can an organization enjoy the fruits of its success. Thus, strategic flexibility should not simply be equated with rapid change. Instead, strategic flexibility is an organization’s capability to deal with the dilemma of commitment versus change. Correctly balancing commitment and timely change should contribute to sustainable positive performance. At the same time, achieving the correct balance is undoubtedly challenging. Abandonment of an initiative too quickly because of initial problems may result in the loss of future potential benefits, while overly strong commitment to a money-losing project will only exacerbate problems. Even if a strategy is successful at one point in time, current success does not guarantee the long-term success of an organization. This is partly due to organizational inertia, which we discuss below.

Commitment and Organizational Inertia

Once a particular strategy becomes successful, an organization can develop consistent structures and systems to further enhance the implementation of the successful strategy. By accumulating knowledge (or know-how) from experiential learning, an organization is able to implement the strategy more effectively and efficiently. The organization, its outputs (i.e., services and products), and financial performance will become more reliable and predictable. This organizational self-enhancing tendency to further commit to a current strategy and a current way of doing things is often referred to as organizational inertia.

Although organizational inertia has positive effects on performance when the environment is stable and the strategy is successful, organizational inertia also becomes a barrier to change. Two major factors cause an organization’s resistance to change: psychological commitment and institutionalized structures and systems. The former, which is often called cognitive inertia, is a mental schema or perspective that managers develop through their experiences. The perspective is self-reinforcing such that successful experience leads to an understanding of information consistent with the developed perspective and compels managers to ignore new but potentially important information. In many cases, the perspective of top management is shared and taken for granted within the organization.

The second factor, a more structural and organizational factor that causes resistance to change, is called structural inertia. When organizations become older and larger, the organizational structures and systems become more complex. The structures and systems also become tightly interrelated over time, developing a set of structure that is hard to untangle. Moreover, under such structures and systems, the same type of information is collected using the same methods, and the information collected will be analyzed using the same taken-for-granted assumptions. In this way, cognitive inertia and structural inertia reinforce each other. It is difficult and costly to change such structures and systems once these are institutionalized.

In this sense, an organization faces an ongoing dilemma in relation to commitment and change. First, an organization needs to commit itself to implementing a new strategy that almost always accompanies unexpected problems and challenges. Without commitment, even a potentially great strategy may be regarded as defective. Yet commitment to a wrong strategy leads to a waste of resources and future deterioration of performance. Second, once a strategy is successful, an organization reinforces its structures and systems to more efficiently implement the successful strategy. In this process, both cognitive inertia and structural inertia often arise and make the organization insensitive to new information derived from changing environments. To overcome this problem and strike a fine balance between commitment and change, an organization needs strategic flexibility.

Importance

How can an organization obtain strategic flexibility? Although there is no panacea for such a fundamentally crucial dilemma, researchers provide various suggestions. Such suggestions can be categorized into four major approaches: (1) strategic approach,
Strategic Flexibility

(2) structural approach, (3) contextual approach, and (4) top management approach. These are not mutually exclusive, and an organization can adopt multiple approaches simultaneously. The basic assumption behind these approaches is that an organization has a natural tendency to become short-sighted, rigid, and efficiency oriented by decreasing the number of alternatives. Organizations inherently prefer stability and certainty to uncertainty; thus new initiatives and changes are often undercommitted or postponed. To counter such a tendency, an organization proactively needs to set mechanisms to encourage new trials (experiments) and increase the number of alternatives.

Strategic Approach

By investing a small amount, an organization can buy future options (i.e., postpone a decision) to further commit or abandon the small investment until uncertainty becomes lower; these are called real options. For example, developing a joint-venture with a certain partner can be a real option because it maintains the possibility of acquiring the partner later. Instead of gambling on one decision, an organization can learn from the small-decision outcomes and use the learning for subsequent decisions. It is notable that assessing a particular option objectively and deciding to abandon is difficult. Comparing multiple alternatives will help managers decide resource allocation. Thus, the real value of this approach will be realized when an organization has a diverse set of alternatives that can not only be compared with each other but that also are responsive to various environmental changes and conditions.

Structural Approach

An organization can set a structure to obtain strategic flexibility—that is, simultaneously efficient in the management in the current business environments while also sensitive to changes in the environment. An organization with such a structural capability is sometimes called structurally ambidextrous. As discussed, structural inertia is enhanced when an organization becomes large. Moreover, the relationship between individuals’ roles and performance is often ambiguous in a large organization, which results in less ownership and creative thinking. By making organizational units smaller and providing autonomy, each unit will become less complicated, and it is easier to initiate something new. With autonomy, each unit is encouraged to take a risk and try something new, in addition to what they have now. Obviously, to enjoy economies of scale, such small units need to be coordinated by headquarters when necessary. When an organization needs to focus on implementing current strategy, it is difficult to spend time and energy on something new simultaneously. One way to deal with the problem is to set a different entity, such as a subsidiary or a joint venture with other firms. Such a different entity can be set to explore new strategic opportunities. Although it is also possible to set autonomous units dedicated to new and explorative work within the current organization, existing organizational systems such as culture and reward systems may create conflicts between the autonomous unit and other units. Rather than fully institutionalizing organizational structures and systems, an organization can maintain strategic flexibility by intentionally allowing some room or redundancy for new actions. Some examples of such semi-structures are temporary assignments, prototyping rather than formal planning, and forming alliances rather than relying on internal development.

Contextual Approach

Besides formal structures and systems, informal contexts also matter by setting organizational climate. To encourage organizational members to be both efficient/exploitation oriented and effective/long-term explorative, a context that is both tight and loose should be developed. An example is an organization in which achieving performance goals is absolutely a must, but the means to achieving the goals can be totally up to individual members. To develop such a climate, researchers suggest there are two important factors. One is discipline and stretch. Unless higher goals are strongly expected, individual members will neither pursue performance vigorously nor think creatively and take new risky alternatives. To share such high expectations among organizational members, strong discipline is needed, for example, by replacing managers who cannot meet the expectations. The other factor is support and trust. To demand high performance and risk taking, an organization needs to provide various types of support for individuals. Moreover, unless
trust is developed, individual members will behave independently, failing to cooperate and come up with organizational-level alternatives. Given that new initiatives involve many unexpected problems, support and trust also help organizational members to share information and learn from each other's problems and mistakes.

**Top Management Approach**

It is important for top managers to be open to new ideas while rigorously implementing the current strategy. Many organizations use team-based decision making that enhances the opportunity to incorporate different perspectives into decisions. Team-based decision-making processes also create means for a check-and-balance process to the chief executive officer's opinions. However, teams are subject to groupthink whereby team members focus more on harmony and consensus within the group than on the quality of the decisions. Accordingly, team decision-making processes need to be carefully designed to avoid this problem and to achieve maximum effectiveness. Researchers have suggested two methods to assist team decision making. First, the value of a team-based approach can be best derived from the diversity of the members' perspectives and experiences. This diversity is formally emphasized when a member of the top management team is designated as a devil's advocate. The role of the devil's advocate is to question the assumptions and alternatives presented. In this way, alternative solutions are analyzed more completely and from many different vantage points. Such an approach can be particularly effective when a decision-making team is relatively homogenous. The CEO should build a nurturing organizational culture that encourages open communications. Second, establishing an organizational system that regularly receives new ideas and infuses new perspectives from outside the firm can provide a “wake-up call” to managers. An external perspective helps managers to be more sensitive to negative feedback by questioning assumptions regarding previous successful experiences, to change the group dynamics within the top management team, and to stimulate the development of new routines. Such systems include obtaining managers from outside and creating a joint venture with other organizations.

*Katsubiko Shimizu*

**See also** Behavioral Theory of the Firm; Escalation of Commitment; Managerial Decision Biases; Strategic Decision Making

**Further Readings**


**STRATEGIC FRAMES**

A cognitive frame organizes individual thought and influences action. It directs attention in a world of overwhelming stimuli and potentially influences further analysis and action by the framer and those the frame affects. A *strategic* frame is intended to similarly organize and affect a collective. Frames are the product of both invention and experience, and thus, they are influenced by social structures and situated history. They also reflect individual and group will and values. The concept cannot account for action by itself, but it is an important construct for understanding cognition’s role in purposeful individual and organizational activities. It is especially useful for considering how new opportunities are developed and contested. This entry summarizes key aspects
of strategic frames and makes the case for the construct's usefulness to theory and practice. It discusses the difference between schema theories and frame theories and draws a distinction between sensemaking and entrepreneurial frames. Strategic frames found in recent discussions about and by entrepreneurs are used to illustrate how the theory can be used. We particularly emphasize strategic framing as fertile ground for research and practice because of its capacity for prospective reasoning.

Fundamentals

It is important to distinguish frame and framing from two other cognitive concepts: schema and sensemaking. We believe that there is necessary overlap among these concepts, but confusion has been created by changes in academic emphasis over time and overlapping definitions that blur important distinctions.

Helpful clarification comes from linking the academic definition of a frame to the way the word is used in day-to-day conversation. A picture frame protects and draws attention to something interesting and valuable. The frame of a new building establishes its dimensions and is a scaffold to which other components are added over time. Speeches, political publications, and other communications are said to be more or less successful in framing convincing arguments. Many people reframe their plans as they consider such appeals, perceive changes in available resources, or analyze outcomes of their own and others' activities.

Organizational actors similarly protect and advance individual and group interests by proactively framing issues and events. Over time, the proffered frame is elaborated in an effort to more effectively influence other actors' activities. As with physical structures, it is difficult to change such strategic frames, but it is possible. Some frames are adopted and further developed by others, while many other efforts languish. Thus, framing is an ongoing strategic process, made complex and interesting by the interaction of purposeful intellectual activity with other phenomena (content decisions, social structures, available resources, emotions, etc.) of interest to researchers in strategic management and other areas of management research.

While early work sometimes defined frames and framing as delimiting attention and leading to bias in a way that is consistent with research on schema, recent research on frames and framing in different disciplines has emphasized agency. In the authors' view, this effort to define frame theory is still in process, but a promising metalogic is being developed across fields of inquiry that can be applied at different levels of analysis with varied methods. Those interested in the creation of social movements, for example, are paying attention to how frames are developed and aligned to mobilize individuals and groups with varied interests. The ethics and impact of framing by the media is an important topic in communication research and journalism. In addition, activists interested in affecting political decision making have used ideas about framing to change public and legislator opinions.

Some commonalities between older schema theories and frame theory still remain. Both theories address the difficulties of dealing with overwhelming information. The resulting frame or schema is conceived as strongly influenced by experience, especially experience interacting with others, and in both cases the phenomena is of interest because it guides perception and interpretation.

But there are also important differences in emphasis. Frame theories tend to focus on explicit knowledge; they are often used to understand agency's successes as well as failures. Frames are an interactive effort that changes over time, evoking the idea of the framework that helps organize the construction of a building. In contrast, schema theories tend to focus on less conscious social and cultural commonalities and search for bias and error that result from tacit assumptions.

In short, a frame is a distinct cognitive concept that (1) helps describe the genesis of efforts to protect and develop a desired state of affairs and (2) provides a scaffold for agency that can be modified over time. This work frequently addresses the requirements for change, including the need to bend or destroy existing frames. Many efforts also link cognition to other phenomena of interest. Research has shown, for example, that competitors have an impact on strategic frames. Other studies suggest that interactions with information technology, product prototypes, and other artifacts affect the way opportunities are framed.

Much of this research has important overlaps with research on sensemaking. Karl Weick's work is very influential in defining this domain, along
with research on sensegiving initiated by Dennis Gioia and Kumar Chittipeddi. Both sensemaking/sensegiving and framing are about purposeful labeling, not only for individual understanding but often for attempts to influence others. The distinctive contributions of framing, however, are apparent when actors try to create something novel.

The distinction between sensemaking and framing in an entrepreneurial context is exemplified by contrasting the sensemaking perspective presented by Karl Weick and his colleagues with work on “effectuation” by Saras Sarasvathy and her colleagues, which we believe is an important example of framing. A distinction in these two bodies of research and theory development involves their focus. Sensemaking and sensegiving focus on dealing with ambiguity by bracketing stimuli; effectuation emphasizes experimentation that creates opportunity. As a result of these differences, an important effect of entrepreneurial framing is that it reinforces and creates flux, while sensemaking organizes flux.

More generally, these and other comparisons lead us to suggest that theories about strategic framing are especially important for understanding invention and innovation. Theories about schema and sensemaking are rooted in the past. While the past has a role to play in most cognition, the more unique contribution of framing theory is to direct attention to future agendas for action.

Importance

Examples of Strategic Framing

It is interesting to illustrate the process of framing new ideas with a short look at studies of entrepreneurship. Early work in this area struggled to differentiate the field from strategic management, organizational behavior, and other areas of inquiry. Arguably, entrepreneurship began to coalesce as a separate area of research in response to the strategic framing proposal by Sankaran Venkataraman and others that its distinctive domain was the discovery, evaluation, and exploitation of opportunities and, more specifically, the role of individuals in opportunity development.

Entrepreneurship research (in fact, all research) can be summarized as the result of continuing framing “contests.” One contest involves the further definition of opportunities and whether they are created or discovered. Yolanda Sarason and her colleagues suggest these disagreements are based on opposing ontological stands. One group argues that opportunities are features of the environment; the other group believes that opportunities are inseparable from the entrepreneur.

A further framing contest can be found in the emerging domain of social entrepreneurship. Tina Dacin and her colleagues argue that social entrepreneurship is not significantly different from financially focused entrepreneurship, and thus established definitions and theories are sufficient. These scholars suggest that the definition of entrepreneurship encompasses social entrepreneurship and that value creation and institutional efficiency explain all successful entrepreneurship. In contrast, Tom Dean and his colleagues have argued that social entrepreneurship represents conditions of market failure or institutional voids and that the focus should be on the prioritization of social value over personal wealth. Both frames are discussed by social entrepreneurs themselves; some argue that doing good is the best way of doing well, whereas others pay little attention to financial reward.

Clearly, each strategic frame we have identified will, if accepted, guide further action by either researcher or manager. They highlight and protect key ideas, just as a picture frame would. But they are also open enough to invite addition and even related modification, just as the framework of a building in process would. Shared experience, including experience by those with little patience for intellectual argument, is an important backdrop. Frames are not primarily about organizing “facts.” They tend to consider multiple subjects and involve multiple levels of analysis. In the words of Gregory Bateson, a pioneer in the field, frames are “messages about messages.” Disagreements are important in the further evolution of messages/frames.

Implications of Strategic Framing

The nature of different agendas and possibilities for resolving them, if any, can be better understood by considering the relationship between schema, sensemaking, and frames. Many largely unacknowledged schema act as the necessary backdrop for strategic framing. If the actors involved have some social links and are operating in contexts with some overlap, there will be some overlap in schema. This overlap supports the likely overlap in sensemaking
Strategic Groups

and strategic frames as well. We propose that sensemaking about surprise and the unsatisfactory are important but distinct from strategically framing arguments for action.

Even the passive cannot avoid using schema, whether they are recognized or not, because schema facilitate simplifying interpretation of a world that offers overwhelming stimuli. The more conscious processing that sensemaking and framing require builds on but goes beyond schema. Sensemaking research on the actions of firefighters, emergency room doctors, airline pilots, and others leads to suggestions for more effective action. But this work essentially puts a black box around the move to action. Recent discussions of framing in various social science disciplines help us understand volition and its agendas.

Framing is necessary to act because of limited cognitive capacity but also because of the requirements for organizing action. The more novel the situation, the more distracting and biasing schemas and sensemaking can be for individuals in organizations. Frames are about interpretations that proactively protect and advance the interests of a specific individual or group. They are about efforts to change not just understanding but also activity.

Attention to the frame is especially important when actors try to develop the new opportunities widely sought by individuals, companies, industries, and governments. Radical innovations require taking a significant step away from past experience. Strategic frames and the process of strategic framing inform this process.

Anne Sigismund Huff and Yolanda Sarason

See also Entrepreneurial Cognition; Entrepreneurial Effectuation; Schemas Theory; Sensemaking; Social Cognitive Theory; Social Entrepreneurship

Further Readings


Strategic Groups

A strategic group, as defined by Michael Porter in 1979, is a set of firms within an industry that compete based on a similar set of strategies. There could be several strategic groups within an industry. For example, in the automotive industry, there could be strategic groups based on compact cars, luxury cars, electric cars, and so on. Likewise, in the pharmaceutical industry, there could be strategic groups based on whether firms compete in the market for generic drugs or branded drugs. There is a greater level of competition between firms within a strategic group than between strategic groups. Thus, strategic groups are important because they define the domain of competition within an industry. This entry discusses the origin of strategic groups in the management literature, the key theoretical approaches used to explain strategic groups, and the implications of strategic groups for firm behavior.
Fundamentals

The term *strategic group* was first coined in 1972 by Michael S. Hunt, who suggested that firms within an industry use heterogeneous survival strategies. Since then, a number of studies from the industrial organization (IO) economics stream have examined the existence of strategic groups in different industries. More recently, scholars have used managerial cognition and organizational ecology as the theoretical foundations to study strategic groups. The managerial cognition theory suggests that managers tend to focus on certain firms in an industry most similar to their own firms, resulting in a strategic group. Organizational ecology scholars suggest that the patterns of competition and population dynamics within an industry vary for different groups of firms. In spite of these advances, the theoretical foundation for study of strategic groups remains weak.

On the basis of the managerial cognition theory, some scholars have suggested the concept of strategic group identity to explain the emergence of strategic groups in an industry and the consequences of the same for firm behaviors and outcomes. According to Margaret Peteraf and Mark Shanley, strategic group identity refers to a set of mutual understandings, among members of a cognitive intraindustry group, regarding the central, enduring, and distinctive characteristics of the group. The strategic group identity is developed based on the interactions among social learning, social identification, economic forces, and historical and institutional forces. The emergence and persistence of a strategic group depends on the strength of the strategic group identity.

Based on the IO literature as outlined by J. Lee, K. Lee, and S. Rho, scholars have identified four sets of factors that make the basis to analyze the emergence and persistence of strategic groups: mobility barriers, strategic interactions, firm rivalry, and dynamic capabilities. Mobility barriers across strategic groups limit the extent of imitation and entry by members of different strategic groups. As a consequence, some strategic groups are able to maintain a higher level of profitability compared to others. The mobility barriers could arise as a result of huge investments in innovation and advertising and the path of dependency in developing such capabilities. Strategic interactions occur by way of collusion between firms within a strategic group and may help sustain the group by limiting entry by imitators. With respect to firm rivalry, there are two competing views. One view suggests that there is less rivalry between firms within a group than across groups. This is because firms within a strategic group have mutual dependence and use tacit collusion to maintain the entry barriers and superior performance. The other view suggests that there is a greater level of rivalry between firms within a group than with firms outside a group. The very existence of mobility barriers implies that firms within a strategic group do not need to be concerned about competition with firms outside the strategic group. There is no conclusive empirical evidence about which of the above holds true. Finally, dynamic capabilities are the capabilities that firms need to sustain their competitive advantage. For a strategic group to remain differentiated from another strategic group and maintain a higher level of performance, the firms within this strategic group need to rely on dynamic capabilities.

Strategic groups can be used to analyze the competitive structure within an industry. Formation of a strategic group within an industry is hindered by high mobility barriers, high level of rivalry, and low resources. However, once formed, strategic groups tend to persist, making them a useful tool for industry analysis. Firms within a strategic group may consider multiple dimensions in their strategic decision making. These include product range and quality, pricing and promotion strategies, distribution channels, innovation, and customer service. Firms within a strategic group may be similar to others in one or more of these dimensions, which in turn determine the strategies that firms adopt to compete and survive.

One can develop a map of a firm’s competitive actions and reactions along one or several of the strategic dimensions identified above to understand an industry’s competitive structure. Such a map for multiple firms can help identify a group of firms that use similar strategies to compete with each other, thus forming a strategic group. Using this map, one can also identify the dimensions on which multiple strategic groups within an industry differ with each other. A commonly used statistical technique for such analysis is cluster analysis, which groups firms in different clusters based on pre-identified criteria.

Strategic groups have several implications for firm behavior. By identifying the set of firms most closely
related to each other and analyzing each other’s strategic actions, members of a strategic group can formulate their own strategies to remain competitive. These firms usually serve the same set of customers, with similar product and service offerings. Firms can also identify the strategic distance between their own strategic group and other strategic groups and predict future competitors. Finally, strategic group mapping can be used to find unexplored opportunities for growth and potential challenges in sustaining competitive advantage.

Ajai Gaur

See also Hypercompetition; Interorganizational Networks; Social Cognitive Theory; SWOT Analysis Framework; Theory of Cooperation and Competition

Further Readings


**STRATEGIC INFORMATION SYSTEMS**

Although information technology (IT) first entered organizations in the early 1950s, it was only in the late 1970s that IT, or more specifically information, began to emerge as a resource that could be considered strategic and harnessed in the pursuit of competitive advantage. Driven on by this realization, organizations began to proactively seek out opportunities to exploit information using IT in ways that enabled them to differentiate themselves from competitors. Early examples were American Airlines (with their SABRE booking and airline seat inventory management system), Baxter Healthcare (with their ASAP online ordering system permitting hospitals to place orders electronically), and Otis Elevators (with Otisline, where problems with elevators were automatically diagnosed and elevators automatically “phoned” an engineer dispatch center) that deployed IT in ways that enabled Otis to enjoy a competitive advantage over their competitors. These applications of IT were referred to as **strategic information systems** (SIS). In this entry, the fundamentals of SIS are outlined. How the concept has evolved is described, the life cycle of IT investments is illuminated, and the latest contemporary thinking is presented.

**Fundamentals**

Early applications of IT in organizations automated existing work practices and processes, particularly clerical work in the accounting area (e.g., payroll and general ledger). Because they processed transactions (debits, credits, hours worked, tax deductions, orders, invoices, etc.), they were typically referred to as **transaction processing systems** (TPS). There was also a realization that such systems generated information (data) as a by-product—sometimes vast amounts—that could be potentially of value to the management of an organization, particularly if aggregated. This led to the concept of a management information system (MIS) emerging. This was also the time when organizations looked to develop what they referred to as decisions support systems (DSS) to support the decision-making processes of management. Rather than merely presenting information from TPS as an MIS did, these systems enabled managers to combine this information with emerging modeling capability to ask “what-if” questions, build financial and operational models, and simulate scenarios. Despite these developments, IT was generally considered as a tool to support ongoing business operations.

In contrast, SIS are fundamental to the execution of a business strategy. Indeed, they provide the organization with the basis for competitive advantage. Any application of IT underpinning an organization’s business model can be considered as a strategic information system. This is particularly true where
executing the business model would not be possible without IT. It is important to note that strategic does not mean using leading-edge technology: What is crucial is the purpose for which technology is applied. There are many examples of SIS that use technology that has been around for many years but apply it in a novel way.

To capitalize on the potential of information and IT, and to identify SIS, executives seek to align their organizations, investment in IT with the strategy of the organization. Often referred to as strategic information systems planning (SISP), this is a systematic process that usually begins with the strategy of the organization and seeks to determine its information and systems requirements. There are many proprietary approaches to SISP, particularly those developed by management consultancy practices, as well as tools to support the process for building the information systems (IS) strategy. Research has also identified the factors that contribute to alignment, and these include senior executive support for IT, chief information officer (CIO) involved in strategy development, strong business-IT partnership, and well-prioritized IT investments.

The problem with alignment is that as a process it begins with the business strategy, where the challenge is to align the IT investment portfolio to this strategy. It typically doesn’t take into account that technology could potentially drive strategy—that is, create a strategy that would not be possible without IT. This is where IT becomes the source of innovation: business model innovation, product/service innovation, process innovation, innovation in the customer experience, or management innovations.

Not exploiting the innovative opportunities provided by IT reflects the fact that in many organizations, the CIO/IT director may not be directly involved in the strategy formulation process. Additionally, the low level of “digital literacy” within the leadership team building the strategy generally results in its being unable to conceive of strategic opportunities provided by IT. The duality of IT is that it not only enables the strategy of an organization, it can also shape the strategy. Coevolution rather than alignment is the more contemporary proposition that seeks out alignment as well as innovation, with both the business and IS strategies coevolving with each other.

Of course, organizations will make different kinds of investments in IT, not all of which will be strategic. One way to categorize these investments is to consider the contribution they make to achieving the strategy of the business. Each investment will fit into one of four categories:

- **Strategic**—investments in IT applications that are critical to sustaining future business strategy. Strategic investments are often confused with large and expensive. The definition relates to the contribution to strategy; as a result, what is positioned here will differ from organization to organization.
- **Key operational**—investments in IT applications on which the organization currently depends for success. That is, if they were switched off, significant and immediate loss would result. These are often referred to as the systems: electronic point-of-sale, warehousing, credit card authorization, website for ordering, supply chain, and so on.
- **Support**—investments in IT applications that are valuable but not critical to success. There may be dozens or hundreds of these, and they often soak up far too much time and money.
- **High potential**—investments in IT applications that may be important in achieving future success. These are often neglected. Included here are business R & D and technology experimentation to identify potentially applications.

Investments in strategic and high potential applications are about gaining advantage. IT investments in key operational and support applications are about avoiding disadvantage.

It is unlikely that an SIS will stay strategic for very long. Although organizations may gain some “first-mover advantage” with an innovative application, it can be quickly copied and does not produce an advantage that is sustainable, particularly when patent protection for IS applications is almost non-existent and where keeping an IS innovation secret is difficult, especially for systems used by customers or suppliers. Applications thus have a life cycle that often sees them begin in high potential, where the idea and innovation and its potential is identified and piloted, through to strategic, where the advantage is achieved, and then to key operational and/or support were they no longer provide any competitive advantage as competitors have made similar
Investments, but can be still fundamental to the workings of the organization.

Few organizations continuously derive advantage from their IT investments and most examples that one reads about tend to be one-offs, which the organization fails to repeat. Even the early examples of SIS quoted above were often due to luck rather than any rigorous analysis. Consequently, there is a realization that organizations today must develop an IS capability: an ongoing ability to both harness IT as well as leverage competitive opportunities to identify SIS. This capability is less about technology and more about the quality of management and the processes that they put in place.

Joe Peppard

See also Decision Support Systems; Practice of Management, The; Strategies for Change

Further Readings


Strategic International Human Resource Management

Broadly speaking, strategic international human resource management (SIHRM) is about the management of human resources consistent with the strategic direction of the multinational enterprise in a dynamic, interconnected, and highly competitive global environment. More specifically, SIHRM is about understanding, researching, applying, and revising all human resource activities in their internal and external contexts since they impact the processes of managing human resources in organizations throughout the global environment to enhance the experience of multiple stakeholders. The purpose of SIHRM is to enable the firm, the multinational enterprise (MNE) regardless of size, to be successful globally. SIHRM for many firms can be critical to their success, and effective SIHRM can make the difference between survival and extinction for many MNEs. The following sections of this entry review the fundamentals of the components of SIHRM.

Fundamentals

Because SIHRM reflects so many components, it is helpful to use an integrative framework to describe the five major factors of SIHRM: (1) strategic MNE factor; (2) exogenous factor; (3) endogenous factor; (4) SIHRM policies, practices, and issues; and (5) MNE effectiveness. Taken as a whole, this framework incorporates the numerous contributions of the frameworks, models, and theoretical perspectives of many authors in SIHRM.

Strategic MNE Factor

As is true for firms operating in a single country or region, MNEs strive to develop SIHRM systems that fit the contours of the realities of MNEs and their present context—a global context that is much more complex, multifaceted, uncertain, and even chaotic than ever before. This implies that strategic international human resource management involves an understanding of the environments of MNEs and the management of the MNE’s inter-unit linkages as well as the concern for alignment. Understanding the environments requires that SIHRM continually monitor the external and internal contextual
Managing inter-unit linkages is needed to integrate, control, and coordinate the units of the MNE scattered throughout the globe. Concern for alignment includes concern for how the SIHRM policies and practices fit together and for the way the MNE and its units operate in concert with the laws, culture, society, politics, economy, and general environment of particular locations. This is developed further in the discussion under “Exogenous Factor.”

As shown in Figure 1, an important strategic MNE factor is cross-border alliances (CBAs). An important challenge for MNEs and SIHRM is developing and managing CBAs. CBAs in general involve two or more firms agreeing to cooperate as partners in an arrangement that is expected to be mutually beneficial. Such an alliance can take the form of a complete merger or a creation of a third entity, an international joint venture (IJV).

As suggested earlier, all types of CBAs share varying amounts of complexity, which can become a barrier to three needs common to all forms of CBAs; the needs for organizational learning, economies and efficiencies, and control. Prior research suggests that organizational learning is a key building block and major source of developing and sustaining a competitive advantage for MNEs as well as CBAs.

Another important need for CBAs is to develop and maintain managerial and organizational efficiencies and economies. These economies and efficiencies can result from combining operations, building upon the experiences of existing management, and taking advantage of the latest in technologies, such as when establishing a new facility. The third significant need for CBAs is to develop the ability to exercise control. In the absence of control, it can be challenging for partner firms to build conditions that maximize learning for itself and its partners. All three of these needs are served by effective SIHRM. As such, CBAs are no longer a peripheral activity of SIHRM, but a mainstay of competitive strategy and competitive advantage.

Other issues that have become increasingly important to MNEs and SIHRM and that could be discussed in detail include supply chain management and global talent management. Because of space constraints, we discuss only global talent management (see “SIHRM Policies, Practices, and Issues,” below).
Strategic International Human Resource Management

Exogenous Factor

SIHRM professionals are becoming more sensitive to variations in country conditions. Understanding and using this sensitivity are necessary challenges for MNEs, particularly in aligning their SIHRM systems with other elements of the global external environment, specifically, the legal, economic, cultural, political conditions in each country of operation.

A related challenge in SIHRM is developing a global approach to managing human resources that embraces a few universal principles that give the entire global system consistency while also allowing local and regional autonomy. Achieving the right balance between consistency and autonomy requires continual evaluation and discussion about which policies and practices can be global and which can or should be regional or even local. This can be a challenge because local conditions relevant to SIHRM practices vary so greatly. Thus as local units align their practices with local conditions they invariably find themselves having different HR practices across local and even regional units. Thus in attempting to get consistency across all units in how they manage their employees they either need to develop a common set of HR policies that can guide development of local HR practices, or develop a multilevel set of HR practices, some of which are common globally, such as performance management, and some of which are unique locally, such as labor relations. These considerations are further reflected in the section on “SIHRM Policies, Practices, and Issues.”

Endogenous Factor

While a great deal of the earlier discussion of competitive advantage was most applicable to a domestic context, a more recent discussion of gaining competitive advantage in the global context has emerged. These authors suggest that “lasting” global competitive advantage from human resource management comes from developing SIHRM practices appropriate for an organization’s specific context, including its culture, legal and political systems as presented under the Exogenous Factor. Additional bases of global competitive advantage come from (1) effectively using economies of scale and scope, (2) relocating operations around the world, and (3) transferring learning and knowledge across operations worldwide. All these bases of gaining global competitive advantage have distinctive implications for SIHRM.

Other endogenous factors that could be discussed here for their SIHRM implications include: headquarters decision-making orientation (centralization to decentralization), structure of international operations (regional to global), and the experience of management in operating an international enterprise (limited to extensive).

Importance

SIHRM Policies, Practices, and Issues

The several SIHRM policies and practices listed in Figure 1 represent those activities that multinational firms use in managing their human resources in the dynamic and interconnected global environment. The policies of these activities can be developed by SIHRM professionals to guide the units of an MNE around the world in their development of more specific SIHRM practices that reflect the local cultural, social, economic, legal, and political conditions. With the growing concern for talent management, MNEs around the world have developed many of these SIHRM policies and practices in a systematic, coordinated way in order to more effectively manage their global talent. Because of the importance of managing global talent effectively, it has become a major SIHRM issue over the past decade, and is likely to remain one in this decade.

The SIHRM issue of global talent management (GTM) is about planning, staffing, developing, appraising, compensating, reducing, locating, and even relocating human resources to obtain the right talent, at the right place, at the right time, and at the right price consistent with the strategic direction of the MNE. Besides GTM, other SIHRM issues that could be discussed here include managing relationships between headquarters and the globally dispersed units (high control to high autonomy), and balancing the need to blend in with the local conditions with the needs to have policies and practices consistent with the strategic and technological imperatives of the business (local sensitivity to strategic fit).

MNE Effectiveness

The importance of developing SIHRM systems that address the concerns of all key stakeholders is now becoming recognized around the world. Certainly, the organization itself, including all its subsidiary units, is a primary stakeholder, so it
is appropriate to assess the impact of the SIHRM system against objectives such as improving productivity, improving profitability, sustainability and capability, and ensuring the organization’s long-term survival in a multiple-country context.

Employers also recognize that organizational strategies that depend on total quality, innovation, and customer service cannot be met unless employees are willing to strive for the same goals on the organization’s behalf.

The effectiveness of a SIHRM system can also be assessed by showing its effects on customers. SIHRM practices can influence the quality and variety of products available to customers, the price at which those products can be purchased, the service received and so on. In a multiple-country context, analyzing and responding to customers’ needs in several environments can constitute a successful competitive strategy in being local and global at the same time.

Other major stakeholders who can be affected by an MNE’s SIHRM practices include suppliers and alliance partners in a multiple-country context. Through various forms of cooperative alliances, a company seeks to achieve goals common to all members of the alliance. Finally, the effects of an MNE’s SIHRM practices on the local community and the broader society are being taken into account when assessing the effectiveness of SIHRM, moving beyond the sole concerns embodied in laws and regulations. An organizational assessment of SIHRM effectiveness that fails to consider its ability to reduce or prevent unethical or corrupt business practices in a multiple-country environment or to incorporate the impact on the environment may be inconsistent with today’s thinking on SIHRM.

Overall, the framework offered here seems to be supported by the empirical work that has been done over the past twenty years. In considering their worldwide operations, managers would be well advised to include a methodological analysis of a variety of human resource management issues, for surely these will impact the success of the firm. Using the framework provided can be a helpful way to go about this analysis.

Randall S. Schuler

Further Readings


STRATEGIC PROFILES

Many firms, especially successful ones, have a clear and persistent manner of addressing their markets and broader environment. In this sense, the firm can be said to have a “strategy.” Coupling strategy with other key organizational features such as capabilities, structures, processes, and management philosophies results in a firm’s strategic profile. Having an accurate and comprehensive strategic profile is particularly useful in strategic planning and decision making when the firm evaluates its competitiveness in existing businesses while considering those businesses it might enter in the future. This entry describes how the profile concept originated, and how strategy and industry profiles are used to craft competitive strategies that fit their industrial circumstances.

Fundamentals

Research and writing about strategy moved to the fore in the management literature when improvements in planning and forecasting methods, quantitative operations management, and computers found their way into business firms. A number of academic books and articles were published in the post–World War II period that helped firms formulate effective business strategies. Three of the most
prominent books were by H. Igor Ansoff (Corporate Strategy), Raymond E. Miles and Charles C. Snow (Organizational Strategy, Structure, and Process), and Michael E. Porter (Competitive Strategy).

Ansoff introduced the concept of a profile, which, he argues, can be useful in strategic decision making and planning. Specifically, he describes how a firm can use capability and competitor profiles to help determine the kinds of businesses the firm should seek to enter. By analyzing both the firm’s internal and external environments, management can determine the gap between what the firm is currently doing and what it wants to do in the future, and a strategic plan can be formulated to close the gap.

Miles and Snow, whose studies included industries as diverse as college textbook publishing, hospitals, electronics, and food processing, identified three firm strategies that were effective in each of those industries: prospectors, defenders, and analyzers. Subsequent studies by other researchers showed that those strategies also were effective in a variety of other industries. As numerous researchers have documented, prospectors, defenders, and analyzers each have a specific profile (configuration) of key organizational characteristics such as capabilities, structures, and processes.

- **Prospectors** are firms that continually develop new products, services, technologies, and markets. They achieve success by moving first relative to their competitors, either by anticipating the market based on their research and development efforts or by building a market through their customer-relating capabilities. Prospectors compete through continuous innovation supported by managerial approaches that emphasize collaborative knowledge sharing within and across organizational levels.

- **Defenders** are firms with stable product or service lines that leverage their competence in developing process efficiencies. They search for economies of scale in markets that are predictable and expandable. Successful defenders tend to be the low-cost, high-volume producers of a limited product or service line.

- **Analyzers** are firms that use their applied engineering and manufacturing skills to make a new product better and cheaper, and they use their marketing skills to improve product sales.

Analyzers search for proven technologies with significant potential for generating new products and services. Analyzers’ innovations tend to follow those of prospectors and usually result in higher quality and/or lower prices.

Various scholars have examined the Miles-Snow strategy typology’s validity and reliability, the effectiveness of the typology compared to other prominent typologies, the functional attributes and performance of the strategy types in different industries and countries, the relationship of each strategy type to the firm’s marketing orientation, and the extent of the typology’s use.

Porter contributed to strategic planning and decision making by emphasizing the need for a firm to have an in-depth understanding of both its industry structure and competitors’ behavior. His *five forces model* focuses on the competitive dynamics produced by interactions among a firm’s customers, suppliers, competitors, and substitute products or services as well as the potential for new firms to enter the industry. Each of these forces affects a firm’s ability to compete in a given market. Together, they determine the profit potential of an industry. Porter used industrial organization economics theory to develop a set of concepts and tools managers can use to perform industry and competitor analyses. Such analyses are the basis of the firm and competitor profiles used in strategic planning and decision making.

Using insights from these and related sources, managers can analyze their firm’s current profile to determine the extent of the firm’s internal and external fit. Internal fit is achieved when the firm’s strategy is supported by appropriate capabilities, structures, and processes. External fit is achieved when the firm’s strategic intentions have value in its industries and markets. Research shows that the dominant strategic profiles may shift as industries mature, with prospector strategies dominating when industries are new and analyzer and defender strategies dominating as the industry grows and matures.

*Raymond E. Miles and Charles C. Snow*

See also Behavioral Theory of the Firm; Business Policy and Corporate Strategy; Modes of Strategy: Planned-Emergent; Strategic Contingencies Theory; Strategic Frames; Strategy and Structure; Strategy-as-Practice
STRATEGIES FOR CHANGE

With an increasingly integrated global economy, the speed of change required for most organizations, particularly businesses, is greater than in the past. The ability to lead change is something now seen as a necessity for managers. Strategies for change can be defined as how to effectively lead/manage change within an organization. Undoubtedly, the leading change model has been the eight-stage framework developed by Harvard Business School (HBS) professor John Kotter. This entry focuses on the Kotter model as well as related key ideas about change that have proven themselves valuable to practicing managers.

Fundamentals

Leading Change: An Eight-Step Process of Change

During the 1980s and 1990s, John Kotter studied a number of leading techniques of the day used by managers to adapt to a changing market: quality management, reengineering, rightsizing, restructuring, cultural change, and turnaround. Their success rate was low; Kotter's question was, Why is it so low? From this work, Kotter identified the eight most common mistakes made during change that get in the way of success and, by turning them on their heads, came up with his eight-stage model:

1. *First and most important, establish a sense of urgency.* Although this may sound easy, many companies do not communicate sufficiently in the early stages to help their people understand the considerable need to change. Encouraging people to get out of their comfort zone also requires time; therefore, executives have to display patience in creating that sense of urgency. Another element is to help people see that they are on a “burning platform,” metaphorically referring to an oil platform in the North Sea, where the only reason to jump into the frigid waters would be to avoid the worse fate of an oil platform fire. Over many years of working with firms with his model, Kotter came to see that this was the most critical step and published a book, *A Sense of Urgency*, in 2008, to help explain how to help people understand the need for change.

Communication is a big part in creating urgency. Kotter underlines that playing it too safe is risky because it will not drive people to see the need to change. He sums this idea up with a simple statistic: when 75% of all managers are convinced that the current state of affairs is no longer tolerable, the sense of urgency is sufficient.

A key part of the model is to distinguish between managing change and leading change: whereas management needs to keep control of the systemic consequences of the change process, the business’s leadership needs to drive forward the organization to a different place. Change is doomed if there are only change managers and no change leaders.

2. *Create a powerful guiding coalition.* Here, we should not limit the change process to a handful of selected individuals. To be successful, the change process needs to be influenced by a number of key people across the hierarchy. It may well include powerful members of the union or even customers. Effective change teams often cut across the silos of an organization, such as marketing, research and development, manufacturing and service, and what Henry Mintzberg calls “slabs”: that is, the different levels of hierarchy in an organization—frontline, middle, and executive management. Cross-functional and cross-hierarchy teams are very helpful.
3. **Develop a vision and strategy.** Going beyond the typical business plan, change needs an appealing vision. It often takes time to establish that vision, which needs to be followed by a strategy to implement it. Failure at this step often results from a multiplicity of plans and programs that lack vision. In contrast to mere methods and procedures, a vision rallies and inspires people.

4. **Communicate the vision widely, throughout the organization.** To implement the vision, considerable efforts of communication must be undertaken. The communication must be credible, shared by the whole senior executive team, and spread repetitively. It is easy for a vision to get lost in the clutter of organization life if it is not communicated again and again.

5. **Empower people to start to make it happen.** Obstacles can be everywhere; in the organizational structure of the company, in the minds of people, or in the form of one person blocking the way to renewal. These obstacles must be removed by change agents or the entire effort could potentially lose its credibility, and the organization will revert to its old way of doing things.

6. **Generate short-term wins.** To keep motivation up, the long-term goal needs to be attainable by setting a couple of short-term goals. When change takes a long time to implement, people’s sense of urgency drops. Therefore, it is necessary to keep the pressure on by insisting on reaching multiple short-term goals. Achieving short-term wins encourages those on the fence to see that the need for change is real and to more fully commit their energy to the change effort.

7. **Consolidate change and do not let up.** Some declare victory too soon. Change takes time to become part of the organizational culture. Hence, declaring the effort a success too early can threaten the fragile progress. Even when the results seem clear, it takes years to ensure that the transformation will last. It is helpful to use the credibility earned with early wins to tackle the bigger problems right away. One cannot help thinking of former president George W. Bush on an aircraft carrier declaring “Mission Accomplished” too early in the process.

8. **Anchor change in the organization’s culture:** The change process must result in an attitude of “that’s the way we do things around here.” Only if the transformation is no longer tied to a particular person who implemented and represented the effort will it be followed by future generations of executives. Therefore, even the next generation must be champions of change because they need to take over the legacy. The hardwiring of the organization’s reward and motivational system, of who gets promoted, who gets featured in organizational magazines, the kind of new hires, and so on, reflect the anchoring of change in the organization.

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**The Beer Model: Harnessing the Power of the Middle**

One of Kotter’s colleagues at Harvard, Michael Beer, has developed a related model for managing change. Beer argues that some of the most effective change comes from middle management and frontline managers and troops through their informal efforts to solve business problems. The model is effectively a five-step model: First, they mobilize commitment to change through joint diagnosis of business problems. Second, based on their join diagnosis, they develop a shared vision of how to organize and manage for competitiveness. Third, over time, the organization develops competence to enact the shared vision. At this juncture, the fourth step, senior management plays a key role by deciding which of these from across the organization should be scaled up and spread throughout the organization. Not all will be; in fact, many of these new innovations will remain the part of the organization that created them or may even die out if it turns out to not stand the test of time. For the few that are scaled up, similar to the Kotter model, they are institutionalized over time through formal policies, systems, and structures and made part of the organizational culture, the fifth and final step.

This model makes a lot of sense. Some old-fashioned executives see themselves as the prime source of innovative ideas, approaches, and business models. But this “big brain” approach relies too much on one person or a handful of people. So executives shouldn’t try to be the source of all innovation but instead harness the wisdom of crowds by engaging their frontline troops and middle managers. Frontline troops are boundary spanners; they have a foot in the organization and a foot in the turbulent, changing, demanding world of customers, suppliers,
Strategies for Change

and competitors. Too often, executives spend most of their time locked away in internal meetings. That’s not necessarily a bad thing, but they should recognize the downside: They become out of touch with the external world of the firm.

With the proper encouragement, frontline employees can be an outstanding source of new ideas to grow your business. Perhaps even more important are middle managers. Research has demonstrated again and again that change initiatives originating with middle managers are the most powerful force for successful change in larger organizations. These days, many recommend using these two groups to produce new approaches to reducing costs—always good in challenging times—but more fundamentally, to spot and experiment with new ways of getting growth from existing and new potential customers. What role do executives play? They create a culture where this occurs, encourage it through their own actions, and choose which growth possibilities to scale up.

An Emerging Idea: Nudge Your Way to Transformation

A more recent model of managing change is the nudge model, popularized in a book, *Nudge*, by economists Richard Thaler and Cass Sunstein. This approach looks at using small changes to have a big impact on the organization and hence leading to considerable change. This approach argues that it is much easier to alter just one or two constraints to release change than to identify and manage every factor, every aspect, and every bit of commitment, belief, skill, knowledge, and communication. But when you intervene in a complex system, you want to be sure you are taming the tiger, not simply poking it with a stick. Advocates admit it isn’t easy to find that one perfect nudge to release exactly the change desired. Often, the nudge is used in areas seemingly irrelevant to the problem at hand. One observer dubbed this approach “minimalist intervention.” The actions designed must be highly leveraged. If they fail, no one notices. If they succeed, no one notices how it was done or even who was responsible.

Let us consider three examples designed by consultants: A company desperate to preserve retail prices in the face of widespread discounting by competitors reenergized its sales force and preserved prices on over 80% of all business written. What was the nudge? The CEO delivered a powerful metaphor at a sales meeting that changed the way the sales force members viewed their relationships with their customers. A sector-changing merger was in jeopardy because of turf wars between the finance functions of the merger partners. Special incentives and threats proved useless. The merger succeeded only when the CFO nudged the situation away from fear and distrust by sending a simple e-mail request inquiring after local schools. A third example: Top-producing salespeople paid lip service to the company’s policy of aggressive internal cross-selling, while lining their pockets via side deals with competitors. The nudge to finally get internal cross-selling to take off? It was getting the most conspicuous violator to become a sudden champion by having the CEO offer him a special assignment. In each case, what it took was a carefully designed, small, nudge-like intervention that rapidly led to dramatic improvement.

Importance

Kotter’s change model is probably the most widely used in the world. It has been criticized by Michael Beer of HBS and Henry Mintzberg of McGill, among others, for being too CEO-centric and for failing to recognize the power and role of middle management in bringing about success change strategies. A considerable amount of academic research conducted since then has suggested that most CEO-led change fails and that most effective change comes from middle managers who are closer to the action than senior executives. Even so, unlike first-level managers, they generally have greater credibility with senior executives who control the resources of the organization. In a recent interview with the author of this entry, Kotter readily admitted that he agreed with the importance of middle management and included this in his teaching and consulting work. Kotter believes that his model is one that is equally applicable to every well of management of an organization.

In the experience of those who have led change, there is no question that change almost always produces emotional reactions, whether the change seems small or big, important or trivial. These emotional reactions are brought forward in different ways, passively or aggressively, and it is important to
understand why people resist change so that one can predict the impact that the announcement of change might have. Three common triggers for resistance are these: (1) Self-interest, misunderstanding, and lack of trust: People resist when they do not trust the change leaders, when they do not grasp the consequences that can be expected, and when rumors circulate. (2) Different assessments: Resistance can be met when management and employees assess risks differently, hence draw different conclusions and then stand in opposition to each other about the change that must be implemented. Often, this results from assumptions and a lack of communication. This doesn’t mean necessarily these people are “stick-in-the-mud” types; they may honestly feel that the change leader is making a mistake, and they need to fight the leader who is taking the organization is an unhealthy direction. (3) Low tolerance for change: Although people may realize the need to change, they may be incapable emotionally to implement it because of their unconscious and low tolerance to change. Also, some may resist because they feel that their previous work will lose credibility and that they may therefore lose face.

In recent years, the theme of the importance of emotions in change has received much attention, for example in the 2010 book Switch: How to Change Things When Change Is Hard, by brothers Chip and Dan Heath. They argue that it is difficult to make lasting change because there is a conflict built into the human brain. They go on to suggest our minds are ruled by two different systems, the rational mind and the emotional mind, and these two minds compete for control. This best-selling book highlights in a populist way the importance of emotions. Many outstanding scholars have done serious academic work on the importance of emotions. A good summary of recent research in the area is Research on Emotion in Organization (Vol. 8), edited by Neal Ashkanasy and colleagues.

All in all, we can conclude that strategies for change are critical in a world where change seems the only constant. Modern managers should use these models to help their organizations gain greater alignment with changes in their external environment. Many organizations are working toward being more agile, which seems what is required of many organizations in today’s world.

Karl Moore

See also Appreciative Inquiry Model; Charismatic Theory of Leadership; Hypercompetition; Learning Organization; Organizational Culture Model

Further Readings


Strategy and Structure

The idea that “structure follows strategy” is generally associated with the American business historian Alfred DuPont Chandler. Chandler’s proposition does not constitute a theory but rather a conclusion drawn from his case analyses of the development of large American companies since the mid-19th century. However, this observation resonated with a contingency perspective according to which a firm would achieve its full performance potential only if its organizational structure optimally supported the pursuit of its objectives and could adapt this structure in response to the strategy chosen to achieve these objectives. In discussing the relationship between strategy and structure, Chandler was among the first to use the term strategy in a business context and to portray both strategy and structure as results of managerial choices rather than treat them as givens. These ideas were a strong catalyst to the development of strategy as a field of academic study and are widely considered to be among the most influential ones that emerged in management literature during the 1960s and 1970s. The following outlines the academic debate about the
relationship between strategy and structure in greater detail. Thereafter is a discussion of the empirical evidence related to this relationship and an assessment of the influence the notion that “strategy and structure” has had on managerial practice.

Fundamentals
In his early work, Chandler suggested that the design or structure of an organization results or follows from its strategy for achieving its objectives, specifically its growth objectives. He defined strategy as the determination of the basic long-term goals and objectives of an enterprise, and the adoption of courses of action and the allocation of resources necessary for carrying out these goals. Although he did not formally distinguish between different types of strategy, the examples used in his work suggest that Chandler referred primarily to corporate-level strategies, in contrast to strategic decisions typically taken at the business unit level, such as product design and pricing. With respect to the structure of an organization, he referred to the design of its hierarchy (e.g., lines of authority and communication) and the information flow within this hierarchy. Among other arguments, he suggested that the introduction of the multidivisional organization under the management of a corporate head office constituted an organizational response to facilitate diversification and internationalization strategies.

While not constituting a theory in its own right, the idea of a contingency relationship between strategy and structure has been integrated in a diverging set of theoretical perspectives. However, the exact nature, directionality, and temporal dimension of this relationship, the factors underlying it, and—to a lesser extent—the conditions under which it holds, have been subject to an ongoing debate that was at its most intense during the 1970s and 1980s. Chandler saw the causal link between strategy and structure primarily in the need for organizational efficiency. His view that strategy precedes structure in a temporal sense is rooted in the belief that top management formulates relatively stable, long-term strategic objectives, then aligning the organization to facilitate the most efficient attainment of these objectives—a perspective also found in what Henry Mintzberg called the design school of strategic management. In contrast, organizational ecology does not invoke the realization of managerial intentions or objectives as a driving force but derives the temporal ordering between strategy and structure from an organization’s need for peripheral features of (such as its administrative structure) to adapt to its core features (such as its strategy).

During the 1970s, authors began to question the directionality of the strategy-structure relationship, both in the temporal and in the causal sense. Several reasons as to why structure may precede, constrain, and inform strategy have been proposed. First, particular organizational structures may influence repertoires, cognitive processes, and individual or organizational-level skills and competencies that affect the way managers develop and formulate strategies. In this context, organizational structures are characterized as highly pervasive so that they may exert subtle effects on strategic decision making. They do so at least in part by limiting the set of strategic choices available to managers. Second, many strategic ideas and initiatives may emerge from lower levels of the organizational hierarchy rather than be defined by top management. The organizational setting provides an incentive structure for these strategic ideas to be proposed in the first place and affects the information flows through which they are reported and the way in which they are being processed. In this way, structures may influence both strategy processes (e.g., the adoption and the nature of strategic planning processes) as well as the content of the strategy pursued by an organization. Third, organizational structures may not only influence the efficiency with which given strategic objectives are implemented but also the effectiveness of the choice of these objectives. In particular, transaction cost economic approaches suggest that structures such as the multidivisional organization reduce opportunism among division managers and incentivize the pursuit of strategies in support of overall corporate goals. Fourth, structures may precede strategy in situations of rapid environmental change. In these conditions, swift strategic response to both threats and opportunities may be more conducive to performance than are the formulation of long-term strategies. Therefore, the role of top management is to create organizational conditions (including structures) that facilitate (and thus precede and inform) the rapid formulation and implementation of strategies.

The conclusion to be drawn from the above-summarized debate is that the relationship between
strategy and structure is a reciprocal one, a point made even by Chandler himself in his later writings. The definition of temporal and causal ordering depends, at least in part, on the specific elements considered (i.e., whether corporate or business unit strategies are being analyzed, and which aspects of organizational structures are included in this analysis), where the focus is (i.e., on top versus lower-level management as organizational actors), as well as the environmental conditions of the organizations under study.

In contrast to the perspectives outlined above, configuration approaches are not primarily concerned with establishing a causal or temporal ordering between strategy and structure but rather with their adherence to overarching organizational configurations, archetypes, or “gestalts.” Configuration approaches have proposed a variety of reasons why different characteristics or elements of strategy and structure tend to coalesce in such configurations. The more classical contributions in this stream of literature emphasize the notion of “fit”—that is, the idea that different organizational features may mutually support and reinforce one another. Tight coupling of multiple features helps maximize these benefits and reduces the threat of imitation by competitors. Other approaches introduce the notion of deeply embedded organizational norms, values, or “interpretive schemes” that drive the adoption of both strategic objectives and organizational characteristics so that these characteristics cluster together in stable configurations.

More recent analyses of fit between strategy and structure have concentrated on the complementarities between (particular aspects of) these two factors. A relationship between two elements is defined as complementary if an increase in the level of any one element enhances the marginal benefits of the other element. The presence of complementarities between two elements may be contingent on other conditions, such as a particular environmental setting. The complementarity perspective does not constitute a theory in that it does not provide specific predictions regarding the factors between which complementary relationships may exist or the boundary conditions under which such complementarities may hold. However, modeling the relationship between structure and strategy as a complementary one provides tractability to the idea that they may mutually reinforce one another, without the need for a unidirectional cause-effect relationship.

**Importance**

Since its original formulation, three types of empirical work have investigated the nature of the relationship between strategy and structure. A first group of authors have applied Chandler’s historical perspective to other geographies—in particular to Western Europe—and also expanded it to more recent time periods. This literature, prominent in the 1970s, largely confirmed the idea that structure would follow strategy.

In the 1980s, a second group of authors began to use regression-based and choice-theoretic approaches to test propositions on the relationship between strategy and structure. Whereas some of the earlier contributions to this literature used cross-sectional data to investigate the nature of this relationship, an increasing number of publications began to employ longitudinal designs to address the sequence and causal interplay between strategy and structure. Overall, this evidence clearly attests to the reciprocal nature of the strategy-structure relationship. However, the majority of these investigations find that the effect of strategy on structure tends to be stronger and more direct than the effect of structure on strategy—hence, providing a fairly positive assessment of Chandler’s original proposition that structure follows strategy. Furthermore, the strategy-structure relationship appears to hold even in relatively turbulent environments.

A third group of authors has investigated the firm performance effects of fit between strategy and structure (or dimensions thereof). Relatively few studies in this category have focused on the interaction of specific, relatively well-defined aspects of strategy and structure. A slightly larger number of contributions have investigated complementarities or fit in entire organizational systems involving multiple dimensions of strategy and structure. Overall, the evidence produced in both approaches sheds positive light on the proposition that the optimal matching between the strategy and the structure of an organization enhances its performance. However, some authors also caution that a tight coupling of multiple elements creates barriers to organizational change.

The idea that strategy and structure should fit one another optimally has had a significant influence on applied management literature, in particular during the 1980s. The two terms feature prominently in the
Strategy-as-Practice is a perspective within the broader field of strategic management that considers strategy as something people do rather than simply something organizations have. From this perspective, strategy is a kind of work ("strategizing") that managers, consultants, planners, and others perform with the support of various tools. These tools may be analytical (e.g., Porterian analysis), discursive (e.g., strategy rhetoric), social (e.g., strategy workshops) or material (e.g., PowerPoint presentations and the like). Many such strategy tools are institutionalized widely in society at large, as well as specific to particular organizations. Thus, strategy-as-practice departs from the organizational focus of much strategy research in two respects. Strategy-as-practice concerns itself not just with organizational performance but also with the performance—in terms of personal effectiveness—of strategists in their strategy work. At the same time, strategy-as-practice attends to the wider effects of strategy tools as they diffuse through societies, sometimes shaping strategies and strategy work in ways that are consequential far beyond particular organizations. This entry (1) outlines the core assumptions of the strategy-as-practice approach and distinguishes it from other approaches, (2) discusses some of the methodological implications of undertaking research using this perspective, and (3) offers some insights about where this relatively new field of inquiry is headed in the future and the lessons it might impart to managers.

Fundamentals

Strategy-as-practice takes its inspiration from a larger intellectual movement in the social sciences known as the “practice turn.” This practice turn considers what people actually do in various social contexts as scientifically important because it provides insights into how individual agency links with social institutions. Strategy, as seen from a strategy-as-practice perspective, is thus conceptualized as a situated and socially accomplished flow of activity that occurs over time. Strategy-as-practice offers a novel lens for looking at the social phenomenon of developing strategy in organizations, one that promises distinctive advances in strategic management knowledge. Because it stays close to what strategists...
do on a day-to-day basis, its outputs tend to be more pragmatic and immediately relevant to practitioners than research at the organizational level. Strategy-as-practice directly addresses the managerial skills and tools involved in strategy rather than abstracting to the level of organizational performance. Because it recognizes the institutionalization of certain tools throughout society, it offers the possibility of critique and reform of strategy practices that may have widespread and sometimes unexpected consequences. Thus strategy-as-practice links day-to-day strategy work with key outcomes at multiple levels—personal, organizational, and societal.

The strategy-as-practice perspective emerged in the early 2000s out of a growing frustration with the mainstream strategy literature and its primary emphasis on organizational-level strategy. Strategy research was seen as focusing on what organizations have (e.g., strategies, market positions, or resources) and as limiting its concern to implications for organizational performance. Within this mainstream perspective, very little attention was given to the individuals who proposed, planned, organized, debated, and otherwise participated in the conception and implementation of strategies. These individuals were marginalized even though their skills and emotions had considerable impact on how successful any given strategy effort was likely to be. Scholars interested in the new strategy-as-practice perspective felt a need to refocus research on strategy practitioners, their tools, and their interactions, to better understand how the myriad activities associated with the “doing” of strategy are consequential both for organizations and for others with a stake in strategy outcomes.

Core Assumptions

Strategy-as-practice takes three interconnected elements as core. On the one hand, there are the practitioners, all those involved in strategy work. Next, there are the practices of strategy, the various tools, norms, and procedures of strategy work. Finally, there is strategy praxis, the activity involved in specific instances or “episodes” of strategy work. Praxis is where practices and practitioners are brought together in action. Thus, an important assumption of strategy-as-practice is that practitioners, practices, and praxis are closely interlinked. Episodes of praxis rely on institutionalized practices; through praxis, practitioners express their agency; practices are produced and reproduced in praxis.

First, unlike many traditional views on strategy, strategy-as-practice does not assume that strategy work is the exclusive preserve of top management teams in organizations. On the contrary, a core assumption of this perspective is that strategy’s practitioners are potentially many: All kinds of people may contribute to defining and enacting strategy in organizations. These people might be either internal to the organization (e.g., not just top managers and strategic planners but middle managers and below) or external (e.g., consultants, regulators or investment bankers). Strategy-as-practice is concerned with the skills, power, careers, and emotions of all those involved, or seeking involvement, in strategy work.

A second distinctive feature of strategy-as-practice is its concern not only for organizationally specific practices (“the way things are done here”) but for strategy practices that are widely diffused and institutionalized in society (“the done thing generally”). These practices embody the way strategy work “ought” to be done, as articulated by management culture or prescribed by consultants, textbooks, and how-to manuals or defined by standard technologies and processes. Thus, these practices include standard social practices (such as board meetings, strategy workshops, away days, video conference calls, and so on), common analytical tools (SWOT [strengths—weaknesses—opportunities—threats] analysis, the BCG [Boston Consulting Group] matrix, Porter’s five forces, to name only a few), influential discourses (e.g., the rhetoric of ecosystems, downsizing, or shareholder value), and those practices embedded in ubiquitous material artifacts and technologies (planning documents, flip charts, PowerPoint slides, e-mails, etc.). Many of these practices are so banal as to be taken entirely for granted in strategy work. But this very banality speaks to their pervasive influence. The concern here is not only with these practices’ consequences for particular organizations but also with less obvious societal effects: for example, how they shape identity and authority for various kinds of practitioners and would-be practitioners, or favor some strategies while precluding others. A characteristic concern for strategy-as-practice, then, is how the spread of generic strategic technologies or discourses may systematically exclude certain kinds of issues and practitioners from strategy debate, with potentially widespread implications.
Third, strategy-as-practice is distinctive in seeking typically to understand practitioners and practices through close observation of specific episodes of praxis. These episodes of praxis might be particular strategy workshops, projects, conversations, or presentations. Praxis takes us to concrete, local moments of strategy work, where practitioners translate practices into action. Here, strategy-as-practice recognizes there is an important performance aspect to practices: generic practices are rarely employed as prescribed or intended. They are typically adapted, improvised, and tweaked by skillful practitioners making do with the resources and circumstances they have to hand in the moment. The focus on praxis recognizes that the real-life performance of a generic practice typically departs from the textbook. Praxis is the “situated doing” or “localized instantiation” of practice(s). Close study of praxis is worthwhile because in these specific episodes, skill is displayed, subtle power and identity effects are revealed, and practice innovations are often made.

A final distinctive feature of strategy-as-practice is the diversity of theoretical resources it draws on. Because strategy-as-practice is oriented toward an empirical phenomenon (the work of strategy) rather than a particular frame or method, it embraces multiple theories. Theoretical inspirations for studies so far include structuration theory, activity theory, actor-network theory, sensemaking theory, situated learning theory, discourse theories, theories of practice (notably those of Pierre Bourdieu and Michel de Certeau), and institutional theory. Each theory contributes in its own unique way to a more general understanding of how strategy gets accomplished in organizations.

**Importance**

*Differences With the Process Tradition*

Even though there are similarities with some of the foundational work in the strategy process tradition, strategy-as-practice sees itself as being distinct. In particular, strategy-as-process scholars disagree with the forced dichotomy between content and process that continues to characterize much of the strategy discipline. Both content and process theorists in strategy stem from different schools of thought, each harboring distinct ontological and epistemological beliefs about the reality of what constitutes strategy. Strategy-as-practice scholars argue on the contrary that content and process are inextricably intertwined. Their view is that content is an inherent part of process and that processes are constituted by practical activities. Although they laud the process tradition for opening up the black box of organization, their sense is that it has not been opened enough to fully understand what actually goes on inside these processes. Strategy-as-practice scholars see value in the study of the actual activities that constitute strategy processes and believe that such study will provide a better understanding not only of the processes themselves but also of how strategizing activities contribute to various outcomes both at the level of the organization and wider society.

**Methods**

Strategy-as-practice’s interest in praxis, including the ordinary day-to-day activities of strategists, calls for methods amenable to such study, the majority of which are qualitative. Typical approaches include ethnography (and video-ethnography), in-depth cases studies, interviewing, discourse analysis, and conversation analysis. The concern to simultaneously consider both localized activities and the organizational and institutional contexts in which they are embedded presents particular challenges from a methods perspective because it calls for methodologies and research designs that are both broad in scope and close to the phenomenon under study. This challenge explains recent calls within the strategy-as-practice perspective for new and different methodological approaches that make it easier to capture the complexity of making strategy at all three levels of the individual, the organization, and wider society. Some of the more novel approaches proposed include interactive discussions groups (with informants), self-reports by informants (in the form of diaries, for example), and practitioner research (inviting informants to collect data on and reflect on their own practice). Almost all approaches require expanded data sets, and increasingly, there are calls to experiment with combined methods (qualitative and quantitative).

**Challenges**

Interest in strategy-as-practice as a field has grown considerably over the past decade. Several leading journals have published special issues on the topic, a number of books on the topic have appeared, and
more recently a handbook has been published. All
the main international conferences in management
and strategy now have interest groups dedicated to
advancing scholarship within the field.

The strategy-as-practice perspective faces two
challenges, however. For one, strategy-as-practice’s
focus on the situated and the particular, and its lean-
ing toward qualitative studies has so far restricted its
ability to contribute to a strategic management disci-
pline that is preoccupied with explaining general pat-
terns of organizational performance. To participate
more fully in the mainstream, strategy-as-practice
needs to offer more on the organizational perfor-
mance implications of strategic practices—which
practices link to successful strategic outcomes and
which do not. A second challenge similarly harks
on the detailed praxis focus characteristic of much
strategy-as-practice research, but here the concern
is at the societal level. Strategy-as-practice has been
fascinated by “micro” episodes of praxis but has rel-
atively neglected the general implications of certain
practices for the empowerment of employees and
the strategic orientations of influential corporations
in society. Responding to both these organizational
and societal-level challenges implies an enlarging
of the research focus for strategy-as-practice: The
lens needs to zoom out from the micro to encom-
pass organizational and societal concerns. Much
remains to be accomplished in this still nascent field,
therefore—both a criticism and an invitation to
further research.

Implications

One of strategy-as-practice’s principal appeals
is its direct relevance to managerial practice.
Traditional strategy research’s focus on strategy
content—for example, which strategies managers
should pursue under what conditions—is frequently
of limited practical use for managers who must deal
with an ever-changing environment, limited organi-
izational resources, internal politics, and recalcitrant
staff, to name only a few of the usual barriers to
strategy formation and implementation. Given that
strategy-as-practice research considers these realities
as part and parcel of the process of strategizing (and
not as externalities, problems, or exceptions) and
seeks to understand them directly, its outputs are
more likely to be practically relevant to managers.
Indeed, strategy-as-practice’s theorizing on strategy
practice does not help managers make sense from
a strategy perspective of what they should do, but
rather, it helps them understand how and why they
do what they do and, by association, what works
and what doesn’t.

Charlotte Cloutier and
Richard Whittington

See also Actor-Network Theory; Dramaturgical Theory
of Organizations; Institutional Theory; Narrative
(Story) Theory; Neo-Institutional Theory; Process
Theories of Change; Structuration Theory

Further Readings

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STRUCTURATION THEORY

Like many of their counterparts in the human and
social sciences, management theorists are skilled in
creating dichotomies: agency/structure, meaning/
cause, relativism/objectivism, and micro/macro. Yet
once established, these dichotomies often end up
obscuring the emergence of other ways of thinking,
sometimes more creative and/or opportune and
sometimes just different. To make sense of—or per-
haps to deconstruct—such dichotomies, a number
of theoretical frameworks have appeared. Regarding the agency/structure relationship, management literature over the last 30 years has been strongly influenced by a number of nondichotomist logical schemata, which deserve recognition as valuable attempts to purposively explore new understandings of human agency and organizational structures rather than continue to fuel dualistic debates. Among the many approaches that have avoided dichotomies, the propositions of British sociologist Anthony Giddens have been adopted by a number of management researchers since the 1980s. How do individual agents’ actions relate to the structural properties of societies and social systems, and vice versa? How is action structured in everyday contexts? How are the structured features of action reproduced? One of the most pervasive and difficult issues in social theory is the relationship between agency and structure. In the late 1970s and early 1980s, Giddens addressed those fundamental problems in the social sciences in a way that was unconventional at the time in a number of articles, culminating with the publication of The Constitution of Society in 1984. The central purpose of structuration theory is a distinct conceptualization of structure and agency: While structural properties of societies and social systems are real, they depend on regularities of social reproduction; structure exists only in and through the activities of human agents. Giddens also departed from the idea of agency as something merely “contained” within the individual; he posited it as referring to the flow or pattern of people’s actions rather than to people’s intentions in doing things. Although structural properties of societies and social systems are real, they have no physical existence. Rather, they depend on regularities of social reproduction. Consequently, the basic area of study in the social sciences consists of social practices ordered across time and space.

Therefore, besides the agency-structure duality, the notions of time and space are central to structuration theory. How people conceptualize time and space and how they manage to organize themselves across time and space are key issues in understanding the properties of social systems. The importance of studying the contextualities of institutionalized patterns of interactions across time and space is stressed by Giddens, whose views invest them with an inherent role in the investigation of social reproduction. He argues that cultural, ethnographic, or anthropological dimensions, which necessarily exist in all social research, are nonetheless frequently neglected in social studies. An analogous claim could easily be made with regard to organization studies: although the analysis of time/space is inseparable from the study of organizational change, context, history, and process were given only limited attention in literature on organizational change until quite recently. Although there have been considerable advances made in these areas, the field of management studies is still far from a mature understanding of the dynamics and effects of time, process, discontinuity, and context.

Complementary to the aforementioned notions of duality of structure and time/space is the concept of knowledgeability, the competence of agents. Giddens holds that all actors are socially competent, with the core idea being reflexivity: The capacity of humans to be reflexive—to think about their situation—entails the ability to change it. There is a strong interrelation between the concepts of duality of structure and knowledgeability. Indeed, competent and reflexive actors are required by the structurationist way of interpreting the interplay between structure and action. Other pivotal concepts in structuration theory are structures of signification, domination, and legitimation; structuring modalities (interpretive schemes, facilities, and norms); elements of interaction (communication, power, and

Fundamentals

The notions of structure and agency were deeply reformulated by Giddens, who emphasizes that although action has strongly routinized aspects, not only is it conditioned by existing cultural structures but it also creates and re-creates those structures through the enactment process. To position his examination of the dualism between agency and structure, Giddens departed from the conceptualization of structure as a particular given or external form. Structure is that which gives form and shape to social life but is not itself the form and shape: It exists solely in and through the activities of human agents. Giddens also departed from the idea of agency as something merely “contained” within the individual; he posited it as referring to the flow or pattern of people’s actions rather than to people’s intentions in doing things. Although structural properties of societies and social systems are real, they have no physical existence. Rather, they depend on regularities of social reproduction. Consequently, the basic area of study in the social sciences consists of social practices ordered across time and space.
sanction); and consciousness (discursive and practical) and unconsciousness.

Evolution
Structuration theory drew significant attention with its account of the constitution of social life—an account that departed from and challenged established theoretical positions and traditions and that prompted the appearance of numerous books and papers in which it was discussed, scrutinized, supported, or criticized. Management studies have emerged as an especially rich arena for theoretical discussion of the use of Giddens’s social theory in the study of societal and organizational phenomena. In 1997, Stephen Barley and Pam Tolbert discussed the similarities between institutional and structuration theory, developing an argument for why a fusion of the two would enable institutional theory to significantly advance and proposing methodological guidelines for investigating the process empirically. In 2002, Udo Staber and Jörg Sydow revisited conventional approaches to organizational effectiveness and survival by using structuration theory’s political, cognitive, and normative aspects of managing change and offering an innovative framework for understanding adaptive capacity. More recently, in 2011, William McKinley focused on organizational adaptations to environmental conditions, challenging some of the structuration theory tenets by proposing extensions that might help improve its application.

A number of articles have drawn on previously published case studies to illustrate the structurationist framework. For instance, Ernest Alexander used the rich description of four cases dealing with air pollution abatement, river basin management and other environmental issues to illustrate the structuration of interorganizational coordination structures in their natural settings. Finally, the variety of research domains integrating structuration theory as a theoretical lens is also noteworthy. For example, in accounting several researchers, including Cristiano Busco, Alan Coad, and Ian Herbert, recalled that the use of structuration theory has made a distinctive contribution to management accounting research as its new developments in the area have a potential to provide new insights. In the electronic commerce area, Md. Dulal Hossain and his colleagues developed a theoretical model grounded on structuration theory to investigate the impact of organizational assimilation of electronic government systems on business value creation. In entrepreneurship, Rich Huebner and Margaret Britt focused on the behavioral and social aspects of security and used emotional intelligence, structuration theory, and social network analysis to offer a new model to help entrepreneurs. In marketing, Calin Gurau investigated the complex relationship between the various elements that shape consumption experience and market institutions by developing a theoretical model based on structuration theory. Finally, in public administration, Eun Gee Yun used structuration theory to improve the understanding of administrative culture changes and the formation of a contemporary administrative culture in a globalized world.

Importance
Instead of counterposing objective/subjective or voluntarist/determinist dimensions, in proposing the theory of structuration, Giddens challenged the premise of mutual exclusivity and assumed the duality of structure and action. But Giddens has not been the only one to propose alternative forms of social analysis that avoids dualistic logic. Other examples are Pierre Bourdieu’s interplay between objectivism and subjectivism, Richard Bernstein’s trajectory bypassing objectivism and relativism, Roy Bhaskar’s account of positivism and postmodernism, and Béatrice Fay’s discussion of science versus hermeneutics. Such a debate has made its way into management and organizational studies, as illustrated by Hugh Willmott’s break from paradigm thinking, Gary R. Weaver and D. A. Gioia’s juxtaposition of incommensurability and structurationist inquiry, and Michael I. Reed’s discussion of duality and dualism. These alternative approaches seek to overcome narrow dualistic thinking and to explore new interpretations of well-known sociological dilemmas. As argued by Marlei Pozzebon, most of these represent not competing but alternative vectors, with the choice among them often being resolved on the basis of ontological affinity.

While offering great theoretical promise, Giddens’s concepts encounter difficulty in being applied. In the discussions that followed publication of Giddens’s ideas about social theories, certain issues regarding their applicability have been raised.
Substitutes for Leadership

Structuration theory is conceptually complex, drawing on ideas from psychoanalysis, phenomenology, ethnomethodology, and action theory, among others. The high level of abstraction that structuration theory operates on has given rise to diverse and occasionally contradictory interpretations. Moreover, Giddens claims that structuration theory is not intended as a method of research or even as a methodological approach, and the extreme difficulty in applying it to empirical research is widely recognized. Any theory must be empirically applied to be relevant, and structuration theory is not easily coupled with any specific method. Nonetheless, authors such as J. B. Edwards, Lisa Jack, Ahmed Kholeif, and Pozzebon and Alain Pinsonneault represent attempts to explore the empirical application of structuration theory.

The obstacles and criticism notwithstanding, structuration theory has played a relevant role in research concerning organizations and their management, and individuals and their choices. In both conceptual discussions and empirical inquiries, since the publication of The Constitution of Society, researchers in diverse fields have made use of concepts drawn from structuration theory. However, much work clearly remains to realize structuration theory’s potential contribution to understanding of management issues.

Marlei Pozzebon

See also Adaptive Structuration Theory; Institutional Theory; Multilevel Research; Neo-Institutional Theory; Process Theories of Change

Further Readings


SUBSTITUTES FOR LEADERSHIP

The substitutes-for-leadership theory concentrates on contextual factors that enhance, neutralize, or substitute for leadership. For example, members of a work team communicate and manage their task responsibilities very effectively, which essentially takes the place of a formal team leader. In this case, team members’ ability to self-manage effectively substitutes for team leadership. The substitutes-for-leadership theory was developed by Steven Kerr and John M. Jermier and has received considerable attention within the field of management. The study of leadership is central to the field of management as it is likely the most frequently discussed and researched topic. The following sections on the substitutes-for-leadership theory begin with a brief review of key approaches to the study of leadership and where substitutes for leadership fit into the overall study of leadership. Next, key elements of the substitutes-for-leadership theory are reviewed. This is followed by an analysis of the theory’s validity and overall impact.

Fundamentals

There is a rich history of studying leadership in the field of management. In fact, it may be the field’s most frequently examined topic. Leadership is essentially the process through which a leader influences the behavior of others to advance the strategic goals of the organization. One of the earliest assumptions
in the study of leadership was that effective leaders possessed a specific set of traits. Commonly identified traits were intelligence, charisma, assertiveness, and conscientiousness. However, researchers were not able to identify leadership traits that consistently improved organizational performance across multiple contexts. In the late 1940s, researchers began focusing on the relationship between leadership behaviors and performance. Surprisingly, no robust, consistent relationships were found between particular leader behaviors and organizational performance. Leadership researchers in the 1950s turned away from leader traits and behaviors and considered the situation within which they operated as the most important factor affecting leadership effectiveness. This, in the 1970s, led to a variety of contingency theories of leadership that hypothesized the fit between the situation and a leader’s style/approach matters most. That is, a leader’s approach may be very effective in one situation but not work at all in another context. This new focus led to Steven Kerr and Anne Harlan’s first mention of substitutes for leadership as factors that lessened a leader’s impact on subordinate outcomes. This paper and several others led to Kerr and Jermier’s paper, published in 1978, that introduced the substitutes-for-leadership theory.

Substitutes-for-leadership theory states that multiple situational factors (i.e., subordinate, task, and organizational characteristics) can substitute for, neutralize, or enhance the impact of a leader’s behavior. These factors can reduce or increase a leader’s ability to influence the job attitudes and effectiveness of subordinates and serve as moderators of the relationship between leader behavior and employee outcomes.

Factors and Characteristics

A variety of different variables have been identified as possible substitutes, neutralizers, or enhancers of leader behavior across the three categories of subordinate, task, and organizational characteristics: (1) the subordinate’s ability, experience, training, or knowledge; professional orientation; need for independence; and indifference toward organizational rewards; (2) intrinsically satisfying tasks; routine, methodologically invariant tasks; and task feedback; and (3) the degree of organizational formalization; rule inflexibility; work group cohesiveness; amount of staff and/or advisory support; organizational rewards outside the leader’s control and spatial distance between the leaders and their subordinates.

Specific characteristics impact relationship-oriented versus task-oriented leadership. For example, a subordinate’s need for independence, professional orientation, and indifference toward organizational rewards tend to neutralize relationship-oriented leadership. Regarding tasks, intrinsically satisfying tasks, cohesive work groups, no control over rewards, and spatial distance between subordinate and superior also would neutralize relationship-oriented leadership. Task-oriented leadership is more likely to be neutralized by subordinate characteristics such as the need for independence, professional orientation, indifference toward rewards, and ability and experience. Regarding tasks, routine tasks, highly standardized tasks, tasks that provide their own outcome feedback, cohesive work groups, no control over rewards, spatial distance between subordinate and superior, highly specified staff functions, and organizational formalization and inflexibility also neutralize task-oriented leadership. Some of these examples in the review of substitutes, neutralizers, and enhancers below.

Categories and Functions

Substitutes are factors that essentially take the place of a leader by decreasing his or her ability to influence subordinates. For example, air traffic control teams are continually and intensively trained and are taught to do whatever is necessary to keep air travel safe, including ignoring directions from superiors. Members of these teams often rely heavily on fellow team members because of the regular intensity of this type of job. In this case, the combination of experience, extensive training, and interdependence substitute for directive leadership. Technology represents another example of a substitute. Many organizations use technology to perform many of the functions formerly conducted by managers. For example, in a high-tech manufacturing firm, employees continually interact with a networked computer system that monitors quality, errors, productivity, and a number of other important variables. The system regularly communicates this information to employees who respond by inputting additional information. All this information is used to provide continually updated performance goals and even
Substitutes for Leadership

Rewards for goal attainment. Yet another example of a leadership substitute is advanced training and/or education. Consider the example of surgeons who are supervised by hospital administrators. Surgeons possess a high level of education and a significant amount of training in performing the surgical procedures necessary within their specific area of specialization. Surgeons have a high degree of autonomy in performing their job because of their specialized education and training, and this often substitutes for the leadership of a hospital administrator who has little ability to provide guidance or feedback on performance.

Neutralizers are variables that stop or counteract actions taken by the leader. They make it very difficult or even impossible for leaders to make a difference. For example, when leaders are physically separated from their subordinates, many recommended leadership practices are not useful and/or difficult to perform. This can be seen with virtual work teams whose members are not located in the same place. Reward systems represent another neutralizer when leaders don’t have the control necessary to provide the most appropriate rewards to their subordinates. Lacking control over the reward system neutralizes a leader’s ability to motivate subordinates. A different type of leadership neutralizer can be seen when leaders ignore the hierarchical structure of their organization. For example, a leader communicates directly with a manager’s subordinates without working through the manager. This bypasses the manager completely and neutralizes his or her ability to influence subordinates. Neutralizers typically have a negative influence on organizational outcomes when those who are being “neutralized” are high-quality leaders. However, neutralizers can have positive organizational consequences when dysfunctional leaders are neutralized.

Enhancers are factors related to employees, tasks, and organizations that magnify a leader’s impact on employees. For example, highly functional work groups with norms of candid communication, cooperation, and organizational citizenship behavior can augment the performance of a leader who fails to provide consistent, candid, and constructive feedback. An organization’s culture can also serve as a leadership enhancer. That is, organizations with cultures emphasizing norms of principled ethics and high-level performance often enhance a leader’s ability to impact subordinates. Another leadership enhancer is related to the amount and accuracy of information to which leaders have access. Consider the leader of a new product development team comprised of members from multiple areas within the organization (e.g., design, manufacturing, marketing, sales, etc.). Access to accurate information about the goals, limitations, and budget flexibility within each of these areas will likely enhance the team leader’s ability to influence the team and move the project forward. Increasingly, a well-developed internal organizational network serves as a leadership enhancer. Well-developed networks of relationships serve to increase access to information, influence across the organization, and access to power. Moreover, leaders who have extensive relationship networks are typically interpersonally skilled and provide this positive example to their followers.

Importance

While the substitutes-for-leadership theory has a significant amount of intuitive appeal, it has been challenged on multiple fronts. The key challenges to the substitutes-for-leadership theory can be reviewed across two primary areas: (1) theoretical relevance and empirical support and (2) practical application.

Theoretical Relevance and Empirical Support

The substitutes-for-leadership theory was originally motivated by Steven Kerr’s frustration with available leadership theories and the reality that there were a number of different factors involved with leadership effectiveness. This highlights one of the conceptual shortcomings of the substitutes-for-leadership theory, the generality of the substitutes identified. The theory fails to identify substitutes that are relevant for specific leadership behaviors. Instead, it focuses on broad categories of behavior, making it less applicable and relevant for managers’ day-to-day challenges. Researchers, such as Philip M. Podsakoff and his colleagues, have advanced the theoretical relevance of the substitutes-for-leadership theory. However, the lack of identifying substitutes that are relevant for more specific leadership behaviors remains a key theoretical issue.

Overall, there has been a lack of robust empirical support for the substitutes-for-leadership theory.
The research that has demonstrated empirical support likely suffers from several methodological shortcomings. First, prior studies with supportive findings may suffer from common-source bias. That is, when all the data in a study is collected from the same source (e.g., team members), relationships among those key study variables may not be accurate because of inflated results. Another common criticism of the substitutes research is the prevalence of cross-sectional studies. In other words, most of the studies examining the substitutes-for-leadership theory collected all their data at the same point in time, making it much more difficult to establish causal relationships between the variables being studied. A primary remedy for this is to conduct more longitudinal research. A final issue that may have led to the lack of empirical support for the substitutes-for-leadership theory is that the original measurement scale developed by Kerr and Jermier has been challenged in accurately assessing substitutes for leadership.

**Practical Application**

The substitutes-for-leadership theory suggests that subordinate, task, and organizational characteristics affect the relationship between leader behavior and subordinate outcomes. This central idea highlights several important, practical considerations for managers and leaders in today’s competitive business landscape. First, leaders should appreciate the multitude of factors that have an impact on leadership effectiveness in addition to their own capabilities. Some of these include subordinates (e.g., personal goals, future leadership capacity, personality, etc.), the task (e.g., complexity, degree of autonomy involved, decision making required, KSAs needed), and organization (e.g., culture, current climate, competitive position, financial strength, top leadership). Consistently assessing these factors would contribute to a more accurate picture of what the leader must do to succeed at the individual, team, and organizational levels. Finally, another related yet critical insight from the substitutes-for-leadership theory is that leaders can’t do it all themselves. While it is important to assess the factors above, leaders must also learn to rely on some of them to assist in the leadership process.

**See also** Attribution Model of Leadership; Charismatic Theory of Leadership; Contingency Theory of Leadership; Leader–Member Exchange Theory; Path-Goal Theory of Leadership; Situational Theory of Leadership

**Further Readings**


**SWOT Analysis Framework**

In setting strategies or future directions for a firm, it is important to understand the general or macro-environment surrounding the organization as well as its industry and competitive environment. It is...
also important to assess the firm’s internal strengths and weaknesses. A tool used to facilitate this understanding is the SWOT analysis framework. Researchers in strategic management agree that Strengths, Weaknesses, Opportunities, and Threats analysis provides the foundation for realization of the desired alignment of organizational variables. By listing favorable and unfavorable internal (strengths and weaknesses) and external (opportunities and threats) issues in the four quadrants of a SWOT analysis grid, which resembles simply drawing a vertical and an intersecting horizontal line in the center of a piece of paper and labeling each of the four squares for one of the letters of SWOT analysis, planners can better understand how strengths can be leveraged to realize new opportunities and understand how weaknesses can slow progress or magnify organizational threats. In addition, it is possible to postulate ways to overcome threats and weaknesses or future strategies, from SWOT analysis. This entry addresses the fundamentals of SWOT, including how to prepare a thorough analysis; discusses its importance in practice and criticisms in usage; and finally, suggests alternatives to use with or in place of SWOT analysis.

**Fundamentals**

A SWOT analysis can be constructed quickly and can benefit from multiple viewpoints as a brainstorming exercise. Typically managers first consider internal strengths and weaknesses (at the top row of the 2 × 2 grid) which can include image, structure, access to natural resources, capacity and efficiency, marketing, operations, and financial resources. At the bottom row of the SWOT grid, external opportunities and threats, including customers, competitors, trends in the market, partners and suppliers, social changes and new technology, and various environmental economic, legal, social, political, and regulatory issues are included. When SWOT is used to analyze a country and not a single organization, classification of variables is different. Macro-environmental forces that would be an external threat or opportunity for a company are components that would exist within a country and are thus classified as internal strengths and weaknesses.

*Strengths* are assets often unique to the organization that competitors may not possess and could include marketing skills, critical human resources, or even a product patent. *Weaknesses* may include pressing problems, including lack of cash flow or high debt, little market recognition, a weak website, or not using industry standard software. Externally, *opportunities* are ways to gather new business, often relying on an organization’s strengths and could include ideas such as expanding internationally, marketing an “add-on” product or service, or pursuing a new major supplier. *Threats* may face the entire industry but could become opportunities if a firm quickly takes advantage of them. Examples of threats include new legislation, changes in the demographic makeup of the customer base, new technology, depressed economy, or an unstable political environment.

The idea behind SWOT analysis is to complete the list of variables under each of the four headings through brainstorming with company managers, employees, customers, consultants, or other knowledgeable parties and then developing strategies or future directions for an organization. The tool reminds managers that strategies must create an internal and external match. SWOT is used by business students, consultants, practitioners, marketing researchers, and academicians alike. The term was first described in the late 1960s, although the exact origin of the term is unknown.

**Importance**

SWOT’s simplicity and catchy acronym perpetuates its usage in business and beyond as the tool is used to assess alternatives and complex decision situations. In the business arena, the grouping of internal and external issues is a frequent starting point for strategic planning. SWOT analysis is one of the most prevalent tools of strategic planning. The traditional SWOT analysis can be reconceptualized in terms of the direction and momentum where the market can still be changed. This provides insight into teaching marketing strategy and competitive rationality skills. It is a traditional means for searching for insights into ways of crafting and maintaining a profitable fit between a commercial venture and its environment. SWOT is used to identify cultural impediments and advantages and external governmental roles as well as internal company issues.

While SWOT analysis is primarily used to help an organization plan future strategies, the framework can also be applied to individuals or groups of...
individuals. Studies report use of the tool for individual organizations, for comparing two companies, and for assessing several companies. In studies of individual organizations, SWOT’s use can be found in the subcategories of education; health care, government, and not-for-profit and for-profit companies. Industry studies have also benefited from SWOT analysis, and studies have even used the popular methodology to compare two or more industries.

More recently, SWOT analysis has been used to focus on countries or country pairs as well as entire industries. In the academic research, studies using SWOT range from assessing political correctness to career counseling to time management for builders. In cases published in various academic teaching journals or strategic management and business policy textbooks, students are often directed to use the SWOT analysis framework to profile an organization as they first begin to craft and defend new strategic alternatives. Outside the business setting, the framework can be used to evaluate any complex, personal decision.

Criticisms

The SWOT framework, with its vagueness, oversimplified methodology, and limitations, is often seen as a victim of its own success. SWOT analysis does not provide a sufficient context for adequate strategy optimization, and the simplicity may lead managers to use it incorrectly, producing short lists of nonprioritized, generalized bullet points. It is a good starting point, according to many managers, but it does not provide guidance on where new strategies will or should come from nor how to implement or achieve them.

The framework does simplify a complex internal and external environment into a shorter list of more manageable issues. Yet the reduction does require human judgment, which may vary and may not be comprehensive or parsimonious. The quantity and timeliness of information used in preparing the SWOT analysis is as important as the variety and dependability of the various perspectives involved. These experts must also be involved in assessing the reliability of the data as they interpret the information provided. Top managers emphasize financial strengths, whereas middle and lower managers tend to focus on technical issues suggesting a high potential for differences related to the level of management conducting the analysis. Perceptions can also be influenced by culture, so it is important to have a diverse, multilevel group of internal and external stakeholders involved in the analysis.

The strengths may not lead to an advantage even though they are important to the firm. They may not provide a lasting advantage. Also, as environments change rapidly and life cycles of products and services continue to decrease, the environmental opportunities may be short-lived or may be too narrowly focused. Adequate benchmarking of competitors and the industry are also keys for a strong external analysis. Vetting and subjecting the findings to additional “due diligence” is needed to ensure that the information and the interpretation of the SWOT evidence is clear and appropriate. These processes can help reduce some of the subjective nature of SWOT analysis.

In addition, categorization of variables into one of the four SWOT quadrants is also challenging. Strengths that are not maintained may become weaknesses. Opportunities not taken, but adopted by competitors, may become threats. The differences between internal and external issues may be difficult to spot. Also, threats acted on quickly and effectively may be rally opportunities. Emerging technologies too have often not yet proved themselves as strength or a weakness.

Another potential problem with SWOT analysis is its circularity. We spot strengths because they allow organizations to capitalize on opportunities, and we identify opportunities by reflecting on an organization’s strength.

SWOT is a moving target given the dynamic nature of strategy, and this may be only a situational analysis without a diagnostic capacity. SWOT is only one dimension of strategy and should also be combined with more innovative, creative brainstorming techniques to develop new products and services in new markets or market segments for long-term sustainability.

Alternatives for Improvements

Alternatives for SWOT include reorganized or repackaged lists of issues. In WOTSUP (weaknesses, opportunities, threats, and strengths, underlying planning), UP stands for “underlying planning” and in SOFT (strengths, opportunities, faults, threats), weaknesses have been re-identified as “faults.” Others are the TOWS (threats, opportunities, weaknesses, and strengths) strategic matrix and the VRIO (value, rarity, imitability, and organizational)
framework (which identifies resources by value, rareness, immutability, and organizational characteristics to recognize competitive advantages). Goals Grid has categories labeled achieve, preserve, avoid, and eliminate. Yet each alternative is a repackaged list of issues.

Resource-based SWOT analysis focuses on systemic causal issues that afford more perceptive, reliable, and actionable insights. The resource-based view categorizes SWOT variables only after the business has been carefully examined for both defensive and offensive goals.

Without ranking or weighting, planners may assume each of the SWOT variables is equal in scope and importance. Current research suggests the use of a quantifiable SWOT method that adopts the concept of multiple-criteria decision making (MCDM) or a multihierarchy scheme to simplify complicated problems. The indices of SWOT are voted on and weighted to assess the competitive strategy, and the total weighted scores method is then used to identify the best strategic alternatives.

SWOT can easily be combined with a number of other strategic models and techniques to organize qualitative data. For example, SWOT is useful in analyzing the organizational environment while value chain analysis or strategic mapping helps managers understand the value-generating components of the core activities. The Boston Consulting Group product portfolio matrix can assist in identifying the nature of the products offered by the industry. SWOT can be combined with Robert S. Kaplan and David P. Norton’s balanced score card as well as used in organizations pursuing quality function deployment (QFD) methodology or for identifying the nature of the products offered by the industry. SWOT can be combined with Robert S. Kaplan and David P. Norton’s balanced scorecard as well as used in organizations pursuing quality function deployment (QFD) methodology or for identifying the nature of the products offered by the industry. SWOT can be combined with Robert S. Kaplan and David P. 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classified as systems theories, making it more of a
general paradigm than a specific theory. In fact, sys-
tems theories expand well beyond theories of orga-
nizations to include theories of individuals, of which
organizations are composed, down to theories of the
cells of which individuals are composed. This general-
zability was intentional. That is, early proponents
of systems theories sought to describe a general set
of principles that would be applicable to a wide
range of phenomena across many levels of analy-
sis. Interestingly, the approach has become both dif-
ferentiated and reintegrated—two processes often
described in systems theories—into various mani-
festations that make describing a single entity very
difficult. Moreover, the principles are often para-
doxical. Nonetheless, this entry attempts to describe
some of the core principles, processes, and manage-
ment insights arising from the systems perspective
and their evolution and impact today, as well as to
describe possible resolutions to the paradoxes stem-
mimg from the principles.

Fundamentals

Systems Theory

In its most general form, a systems theory
describes its unit of inquiry (e.g., organizations) as a
recognized whole composed of interrelated, interact-
ing parts. The paradox arising from this description
is that because the principle is so general, it can refer
to nearly any unit of inquiry and thus appear not
helpful in understanding any particular type of unit.
The resolution of this paradox is the notion that
many units of inquiry share properties and processes
that can be ported from one type of unit to others—
that strong analogies can be made—that inform
theories across the units of inquiry. The major dif-
fferences among systems theories are largely in terms
of the fundamental observations that motivate theo-
rizing and the properties and processes emphasized
within the particular theory.

Two fundamental observations generally moti-
vate systems theories. The first observation is that
changes in one part of a system can have effects,
often unexpectedly, on other parts of a system (i.e.,
the law of unintended consequences), and the sec-
ond observation is that attempts to change a system
often result in no change. Again, these observa-
tions form a paradox, but both can potentially be
explained by the nature of the subsystems, inter-
connections among them, and the dynamics arising
from the subsystems’ operation. Thus, the systems
theorist is interested in developing this explanation
to create interventions that work but that do not
lead to adverse side effects. Often, these types of
interventions include many elements (i.e., describe
changes in numerous parts of an organization) in
order to effect the desired change while minimizing
undesired change.

One property often emphasized in systems theo-
ries is that most systems have variables within them
whose state at one time is at least partially a func-
tion of the previous state of the variable (i.e., $x_{t+1} = f (x_t, x_{t-1})$). This relationship appears to hold because
of one of two conditions. One condition is that
some variables have “memory.” That is, they retain
their value over time and change by forces that
move the variable from one state to another. These
types of variables are called dynamic, stock, or level
variables. If some specific force is applied to such a
variable, the new state of the variable is a function
of that force and the previous state of the variable
(e.g., the new state of the variable is 2 plus the previ-
ous state of the variable). Moreover, the degree of
the force’s effect can be a function of the previous
state of the variable (e.g., the new state of the vari-
able is 2 times the previous state of the variable plus
the previous state of the variable). The importance
of this principle is highlighted with research that
finds that humans, even ones well-trained in scien-
tific principles, have trouble predicting the states of
variables with memory, particularly when the effects
take time to be realized.

A more complex but apparently ubiquitous con-
dition that leads to the observation that the state of
a variable at one time is a function of the state of the
variable at a previous time is that changes to a vari-
able’s state at one time can feed back to influence
subsequent states for the variable. Thus, changes to
a variable might increase or decrease the likelihood
or direction of future changes to the variable. An
example of a specific type of system that demon-
strates this property is a control system. Control sys-
tems include a mechanism for comparing the state of
a variable with a desired state and acting on the vari-
able when the state deviates from the desired state.
A thermostat within a temperature control system
is a classic example of this mechanism. These types
of systems are also called negative feedback loops and the study of them is referred to as cybernetics. They are also the structure that describes the notion of a goal, whether an individual's, a group's, or an organization's. That is, a goal can be represented as a control system where the desired state of a variable is the goal. Finally, the control system is a primary explanation for the observation that attempts to change properties of a system often result in no change. In control theory language, such an attempt is considered a disturbance, which is exactly what control systems counteract (i.e., dampen).

Systems Theory of Organizations

W. R. Scott sought to categorize the vast array of organizational theories, all of which he considered systems theory. Specifically, Scott referred to systems theories that focus on an organization's goals and the control systems attempting to achieve and maintain those goals as rational systems theories. One example of a rational systems theory is Tannenbaum's control theory. This theory as well as earlier rational theories by sociologists (e.g., Talcott Parsons; Charles Perrow) focused on the goals of the organization. Scott contrasts rational systems theories with what he called natural system theories that emphasize the goals of the parts (i.e., the individuals in the organization) that may, or may not, be held in common or include the goal of maintaining the organization. Perhaps the most extreme of these is Richard Cyert and James March's garbage can model of organizational decision making, where the results of actions are evaluated after the fact rather than determined by a rational process of forethought. Finally, theories that focused on the interplay between the system and its environment (e.g., how the system obtains energy and information from the environment) Scott called open systems theories. Daniel Katz and Robert Kahn's social psychology theory, Eric Trist's sociotechnical systems theory, James D. Thompson's organizations in action theory, and Paul Lawrence and Jay Lorsch's contingency theory of organizations are classic open systems theory. A slightly more recent open system's theory is Jeffrey Pfeffer and Gerald Salancik's resource dependence theory, which focuses on the relevance of managing resources from the environment and the social aspects of this process. Scott's classification scheme is still popular today.

To give a flavor of the differences between the theories, consider that rational systems theories describe goals as their core concept. Specifically, they describe hierarchies of goals such that higher level goals are served by lower level goals. Moreover, one might use different subgoals, or means, to achieve a given goal. This leads to the property of equifinality, which is the notion that goals may be achieved via different means regardless of initial states. The implication of the principle is that analysis of a system involves focusing on the states a unit might be striving for as opposed to the behaviors used to get there. In contrast to this rational approach, Katz and Kahn described a comprehensive open systems theory of the organization. Their theory focused heavily on the individuals within organizations and how they interacted with each other. The theory barely mentioned goals, and indeed, when it did, it was to disparage them (i.e., the espoused goals of executives should not be taken on faith). Interestingly, other theories have since argued that both approaches share a strong tie to the control subsystem conceptualization. They merely differ regarding how centrally coordinated these networks of control subsystems are assumed to be. Clearly, one resolution of these paradoxical descriptions is that the degree of central coordination is a variable on which organizations vary.

Evolution

As mentioned, numerous systems theories have been developed and numerous types of systems are described in system's terms. Several theorists have attempted to create systematic taxonomies of systems. For example, the control systems described above represent the third level of a hierarchy of systems described by K. E. Boulding. In this hierarchy, levels in the hierarchy are a function of complexity, and complexity varies as a function of the composition (i.e., parts) of each system in each level. That is, each level becomes more complex by describing systems composed of the lower level systems. The levels include frameworks (i.e., static structures), clockworks (i.e., simple dynamic structures), thermostats (i.e., control systems), cells (i.e., open systems), plants, animals (adds mobility), human beings, social organizations, and transcendental systems. Many of the properties of lower level
systems (e.g., goal striving found in control systems) are represented in the higher levels, while new properties emerge from the interaction among the lower level systems. For example, control systems are the third level, but the process they represent can be found in control theories of humans (seventh level) and organizations (eighth level). Between Boulding’s third level and fourth level, open systems, he delineates life. Specifically, open systems have the critical property of negative entropy, which means the systems can acquire energy from the environment to organize and maintain their functioning.

One particularly ambitious systems theorist was J. G. Miller. Miller focused on living systems. For Miller, this included cells at the first level, followed by organs, organisms (e.g., humans), groups, organizations, societies, and finally supranational systems (e.g., the United Nations, the Internet). All these types of systems are conceived as containing 19 critical subsystems to sustain life (e.g., an ingestor that transforms energy from the environment into the system) and one (i.e., the reproducer) that is critical to the species or type of system, though the level of complexity of the subsystem depends on the level in the hierarchy. The bulk of Miller’s approach can be found in a 1,102-page tome published in 1978 titled Living Systems. In that book, he attempted to support the conceptualizations put forth and to identify weaknesses in knowledge at that time.

The Boulding and Miller efforts represent integrative processes (i.e., processes seeking to organize or coordinate the parts of a system). Systems also engage in differentiation, which is the increased specialization that occurs as systems grow in complexity. In this case, numerous less grand systems theories arose from these grander efforts. For example, one review of systems theories identified 49 systems theories emerging between 1983 and 1994 that might be relevant to organizational scholars. For example, L. R. Beach’s image theory is an example of a dual-level theory where the less than optimal decision-making processes of individuals and organizations are described within a single, systems perspective. Another influential but more comprehensive example is neoinstitutional theory described by Meyer and Scott in their 1983 book on organizational environments.

### Importance

A major purpose of theories is to provide protocols for examining the unit of inquiry. Systems theories have provided numerous insights into the kinds of analysis one might do to understand an organization’s function or how organizations function in their environments. For example, a common “systems” approach to studying organizations is to identify the environmental inputs (i.e., signals, material, and energy sources) that impinge the system and the outcomes that emerge from the system. However, such an approach is actually inconsistent with the principles of systems theories because it (a) ignores feedback processes and (b) treats the throughput processes as a black box.

More sophisticated analytic strategies include substantial qualitative research regarding networks, process tracing, and structural elements (e.g., technology, procedures, and policies). Also, several branches of systems theories use sophisticated quantitative methodologies. For example, a branch of systems theories called system dynamics focuses on representing the dynamically interacting parts of a system computationally so that simulations can be run to predict future behavior of the system. These models can become very complex, though they can often be decomposed into repetitions of the simple subsystems and structures. Yet they are necessary because the nonlinearities and dynamic processes described within the system and environment preclude logical analysis.

Other branches of systems theory also use computational modeling to predict the emerging effects of the interacting parts. The models are called agent-based models because they are composed of multiple, simple, rule-based systems (i.e., agents) placed in an environment and allowed to interact. For example, the agents might represent automobile drivers on a highway or people in a crowded room trying to escape through a single exit. These models can then help engineers design highways and rooms to minimize injury or maximize movement given the assumption that the rules represented in the models match the rules real systems (e.g., people) would use to govern their behavior in similar situations—a testable proposition in some cases. These types of models are particular useful
for exploring the properties that emerge from (i.e., exists only at the level of the whole, but not the parts) interacting parts.

A relatively new branch of systems theories called dynamical systems also uses mathematical modeling and simulations to represent theoretical propositions and identify underlying simple structures that can account for complex behavior. This discipline has identified specific, frequently reoccurring data patterns common in dynamic data (i.e., longitudinal data).

In general, the quantitative modeling techniques represent a realization of the initial promise of systems theories. That is, they use general mathematically represented structures and processes put together in ways described by beliefs regarding the systems under investigation. These models can then be used to test the internal consistency of the beliefs (i.e., Can the theory “work”? Does it account for the phenomena observed or presumably explained by the theory?). The models can also be used to test elements of the theory without necessitating experimentation on the units themselves. This can be particularly important in the case of organizational theories where experimental control over hypothesized independent variables is difficult.

For managers, the systems perspective provides several, nonintuitive insights. For instance, S. A. Snell and P. M. Wright published several papers describing the implications of a systems perspective on strategy human resource management, and P. M. Senge describes creating learning organizations via embracing a systems perspective. These treatments acknowledge the difficulty of applying a rational approach to organizing, but they use tools from the systems perspective to facilitate sensemaking and intelligent institutionalization of effective actions (e.g., managing creativity and environmental diversity via personnel diversity coupled with institutional practices that optimize smooth interaction among participants). They also highlight when organizational decision makers can get into trouble, such as when lags in information motivate overreactions to noisy environmental conditions, but how overconfidence in effectiveness can result in slow reactions to true environmental change.

In conclusion, consider one final paradox. That is, if one were to peruse the organizational theory literature or vast majority of corporate communications these days, one might have a difficult time finding a reference to a systems theory of organizations. This is somewhat surprising given that in the latter half of the 20th century, it was difficult to find a theory of organizations that was not labeled a systems theory. However, the systems theory perspective is not gone; it is merely hidden within the assumptions of most modern theories of organizations. Moreover, the systems theory approach has provided a language for talking about organizations and sophisticated methods for analyzing organizations and organizational processes. Thus, systems theories have submerged as an assumption (or set of assumptions) rather than a point of inquiry. Said another way, the systems theory approach is not controversial; it is widely accepted and, when properly applied, critical to organizational success. The down side of this acceptance is that fewer theorists or executives are inspired by the progress made in understanding systems in other domains of inquiry—for example, in applying advanced knowledge of biological systems to better manage teams, corporations, and institutions. Moreover, the grand theorists of the heyday of systems theories are largely gone. Yet if these theorists are correct, the differentiation currently on the rise will lead to increased efforts at integration. Perhaps this is happening now.

Jeffrey B. Vancouver

See also Complexity Theory and Organizations; Human Resource Management Strategies; Image Theory; Learning Organization; Management Control Systems; Neo-Institutional Theory; Resource Dependence Theory; Role Theory

Further Readings


TACIT KNOWLEDGE

Tacit knowledge is the central construct in Michael Polanyi’s explanation of human knowing expressed in acts of interpretation and skillful performance. Whether knowledge is tacit or not turns on how individuals draw upon it as they think and act. Tacit knowledge remains outside a person's focal attention but is essential to reasoning and action. Tacit knowledge has been an important construct in research on knowledge creation and transfer, although the associated meaning in knowledge management research differs from that proposed by Polanyi. The following section of this entry, Fundamentals, clarifies the meaning of tacit knowledge. The next section, Importance, indicates (a) the tacit/explicit dichotomy in knowledge management research, (b) challenges to tacit knowledge as a construct, and (c) the connection between tacit knowledge and practices in organizations.

Fundamentals

Prompted by Polanyi’s famous aphorism, “We can know more than we can tell,” discussions of tacit knowledge in the management literature have pointed toward people’s inability to articulate what they know or their never having done so (even if they could) as the defining characteristic of tacit knowledge. Although inarticulability or non-explicitness frequently characterizes tacit knowledge, neither is the general criterion for qualifying knowledge as tacit in Polanyi’s presentation. The essential consideration defining knowledge as tacit is that the knower draws upon the knowledge subsidiarily (i.e., nonfocally) in cognitive and physical activity. By definition, knowledge that is used subsidiarily is tacit.

The appropriate descriptor for the category of knowledge that contrasts with tacit knowledge is not codified, articulated, theoretical, or explicit, which indicate knowledge that has been put into words or written symbols. Neither is the appropriate label codifiable, articulable, or explicable, which indicates the potential for people to render knowledge in words or writing. The complement to tacit knowledge—telling us what tacit knowledge is not—is focal knowledge. Thus, the characterization of knowledge as tacit turns on how it is used, not on whether it has been verbalized or codified or on the difficulty of verbalizing or codifying it.

When we humans attend to knowledge expressed in verbal or written form, we do so on the basis of personal background knowledge. Although our focus is on what a speaker or document expresses, our interpretation draws upon our background understanding of words and contexts. Likewise, the act of speaking or writing expresses some aspect of a person’s knowledge, yet it relies upon subsidiary knowledge. When people express, receive, or put to use knowledge, tacit knowledge always is involved.

Many actions make no direct use of formulaic (verbal or written) knowledge. Humans simply act, and we demonstrate our knowledge through our performances. The focus of our attention is on performing within a particular situation, and we have no need to consider directly or articulate the knowledge implicit in our action. When we humans act
skillfully, we rely upon knowledge already internalized through practice. We give no consideration to how or whether this knowledge could be expressed in words or symbols; such considerations are irrelevant. People could attempt to put this subsidiary knowledge into words, but doing so is a fundamentally different activity from the skillful performance itself. Whereas in doing the activity, our focus is on performing within the situation (i.e., doing the task at hand), when we want to identify and articulate the knowledge involved, we shift to a reflective stance focused on how we perform.

Here is the key point in a nutshell. Skillful performances—be they acts of reasoning or bodily action—involve both relying upon one’s own knowledge and attending to situations. As we humans attend focally to a subject or activity, other pertinent aspects of our knowledge become subsidiary. We attend from our background knowledge to the object of our focal awareness. Knowledgeable reasoning and acting always have this from-to structure. Any act of attending to is also an act of attending from. The knowledge from which we attend remains subsidiary and therefore tacit. Tacit knowledge includes the embodied capabilities and cognitive schema that are the background for our perceptions and actions. People can shift their focal awareness to that which was previously subsidiary and in so doing make focal that which was tacit, yet doing so does not undermine the inherent from-to structure of knowing. Knowledge always has a tacit dimension regardless of the subject of our focal awareness.

Keeping the particulars of our tacit knowledge outside our focus of attention aids skillful performance, whereas focusing on knowledge that previously operated subsidiarily introduces a distraction that undermines skillful performance. Focusing on the physical mechanics or implicit theories involved in actions, such as speaking, riding a bicycle, or playing a musical instrument, impairs proficiency. Focusing on how to perform, rather than simply acting, makes performing awkward. Tacit knowledge must remain subsidiary for us to perform proficiently.

An actor drawing upon tacit knowledge indwells such knowledge while the actor focuses elsewhere. We humans dwell in our knowledge just as we do our own bodies; indeed, tacit knowledge is an implication of embodiment. We rely upon our bodies as we attend to the world around us and act within it. In so doing, we relate to our own bodies subsidiarily as tools and sources of data. By implication, all knowing is personal. Our unavoidable reliance upon subsidiary knowledge undermines efforts to achieve impersonal objectivity.

Tacitness is a dynamic property, identifying how knowledge is used, rather than a stable property of the knowledge itself. A way of knowing—subsidiarily (or nonfocally)—is the basis for categorizing knowledge as tacit. How a particular actor in a particular situation accesses particular knowledge determines whether it is tacit. This is a process-oriented, rather than an object-oriented, way to classify knowledge as tacit. Knowledge that can be used focally or nonfocally in different situations defies general categorization as tacit. Nevertheless, if we observe people’s consistent tendency to access particular knowledge nonfocally, we can—following Polanyi—reach a general characterization of such knowledge as tacit.

**Importance**

Three topics are central to assessing the validity and importance of tacit knowledge for organizations: (a) the tacit/explicit dichotomy applied to knowledge management, (b) tacit knowledge exhibited in practices, and (c) the research challenges associated with identifying tacit knowledge.

**Tacit/Explicit Dichotomy**

Researchers generally have addressed the implications of tacit knowledge for organizations by working from a tacit/explicit dichotomy. In this framing, tacit knowledge refers to uncodified or uncodifiable knowledge, whereas explicit knowledge is codified or codifiable in documents or other artifacts. The general claim motivating this research is that the tacit/explicit distinction carries implications for creating, storing, transferring, coordinating, and applying knowledge. Furthermore, the difficulties associated with transferring tacit knowledge between firms make it a potential source of sustainable competitive advantage.

In *The Knowledge-Creating Company*, Ikujiro Nonaka and Hirotaka Takeuchi explained organizational knowledge creation in terms of social interactions involving tacit and explicit knowledge. They described four knowledge conversion processes in organizations: (a) from tacit knowledge
to tacit knowledge, or socialization; (b) from tacit knowledge to explicit knowledge, or externalization; (c) from explicit knowledge to explicit knowledge, or combination, and (d) from explicit knowledge to tacit knowledge, or internalization. In this explanation, organizational knowledge creation is the cumulative result of sequentially and repeatedly applying these four processes.

Strong interpersonal ties and dense social networks facilitate the transfer of tacit knowledge within and across organizations. Experience working together, trust, frequent communication, and proximity appear to be more important for facilitating the transfer of tacit knowledge than explicit knowledge. Furthermore, the transfer of tacit knowledge is associated with organizations’ successful product and process innovation.

Using the tacit/explicit dichotomy facilitates empirical research by introducing a construct that is amenable to observation and measurement—explicit knowledge—and making tacit knowledge a residual category for all other knowledge. However, research applying the tacit/explicit dichotomy misses Polanyi’s distinction between focal and subsidiary knowledge. Other complications arise from working from the tacit/explicit dichotomy because (a) the use of explicit knowledge always relies upon tacit knowledge—that is, we use codified knowledge in noncodifiable ways—and (b) the articulation of knowledge is necessarily incomplete; in other words, knowledge can never be fully explicit. Hence, although we can make a meaningful conceptual distinction between tacit and explicit knowledge, the two kinds of knowledge function complementarily when put to use.

**Research Challenges**

The key challenges to tacit knowledge as an explanation for individuals’ performative capabilities and organizational phenomena stem from (a) conflicting uses of the term and (b) the construct’s unobservability.

Management researchers have used the term tacit knowledge in various ways, and the most prevalent meanings—noncodified knowledge and noncodifiable knowledge—conflict with Polanyi’s understanding. The distinction between noncodified knowledge and codified knowledge is quite relevant to knowledge management, but noncodified knowledge is not synonymous with tacit knowledge. As explained above, the term tacit applies to knowledge that is used nonfocally. Polanyi understood tacit knowledge (a type of knowledge) as an implication of tacit knowing (a process). Confusion regarding tacit knowledge in the management literature may be due to neglect or misunderstanding of Polanyi, or, focusing on particular aspects of Polanyi’s explanation to the neglect of others.

In view of the confusion surrounding tacit knowledge, Stephen Gourlay argues that researchers should shift their attention and efforts toward the streams of research that examine underlying aspects of the phenomenon. Studies of human neurology, motor skills, and implicit learning provide possible leads for explaining tacit knowledge. However, by breaking tacit knowledge into its particular components, we may lose sight of the multilevel dynamic process that Polanyi described. Tacit knowledge may be best understood holistically, and its relevance to management and organizations may be found through exploring both its intrapersonal and interpersonal dimensions.

Determining the tacit knowledge involved in an action is unavoidably problematic because tacit
knowledge is not directly observable. In trying to figure out what knowledge is relevant but nonfocal, outside observers suffer from the inherent deficiency that they cannot observe the internal cognitive and somatic processes of practitioners. As insiders, practitioners may be able to reflect on what was focal during their actions, yet their ability to recall and articulate the subsidiary knowledge enabling what they do is limited. Outsiders can try to become insiders in order to gain this insightful perspective. Nevertheless, even the insider has no direct access to the knowledge that remains subsidiary (i.e., outside any practitioner’s focal awareness) in the act of performing.

Scholars postulate the nature of tacit knowledge as an inference responding to this question: Given what we know about the focal attention of the actor, what other knowledge must be in use subsidiarily to account for a performance? Answers to this question rely upon practitioners’ introspective reflections and researchers’ reflections on comparable personal experiences. Dialogue can enhance practitioners’ awareness of their tacit knowledge and elicit efforts to articulate that knowledge. Articulation does not make the knowledge any less tacit when the practitioner returns to performing and the knowledge reverts to being subsidiary.

For many research purposes (e.g., explaining the difficulty of transferring knowledge), it suffices to identify that there is more knowledge demonstrated in action than can be accounted for by what is focal for the performer, while the precise nature of the tacit knowledge necessarily remains unidentified.

Kent D. Miller

See also Knowledge-Based View of the Firm; Knowledge Workers; Organizational Culture Theory; Organizational Learning; Social Network Theory; Strategy-as-Practice

Further Readings


TECHNOLOGICAL DISCONTINUITIES

A technological discontinuity (TD) is a novel and paradigm-inconsistent concept of creating and capturing value in a given industry. For instance, digital imaging (relative to film-based imaging), online news (relative to printed news), low-cost airlines (relative to flag carriers), quartz watches (relative to analog watches), and Voice over Internet Protocol (relative to traditional landline telecommunication) have been described as archetypal cases of TDs in their respective industries. TDs are a particularly challenging type of external change as they require established organizations to drastically modify internal processes. As exemplified by the stumbling of Polaroid and Kodak—inconsistent firms in the photographic industry that lost their market dominance to new entrants whose businesses were based on digital imaging—TDs can engender drastic shifts in market structures. In the following section, the fundamental concepts underlying the prevailing theory on TDs are summarized. Thereafter, the historical evolution of research on TDs is explored. The final section
discusses the impact of research on TDs on overall management theory and practice, as well as the limitations of existing approaches to the phenomenon of discontinuous change.

**Fundamentals**

**Technologies**

Much of the extant literature on TDs builds on a broad definition of the term technology, which is best summarized as “any given concept of how to create and capture value.” The creation and capture of value encompasses three core dimensions. The first, *use value*, refers to the types and combinations of benefits that are proposed to customers. For instance, “ease of use,” “shopping atmosphere,” or “24/7 access to goods and services” are dimensions of use value. The second, the *process of value creation*, denotes how use value is created by transforming such inputs as labor, capital, materials, and information into outputs of higher value. Finally, the *process of value capturing* describes how companies capture the value they create in the form of economic surplus.

**Paradigm-Consistent Versus Paradigm-Inconsistent Technological Change**

Also underlying the concept of TDs is the assumption that technological change is either paradigm-consistent or paradigm-inconsistent. This notion dates back to Thomas Kuhn’s description of the development of scientific knowledge. As Kuhn observed, scientific knowledge usually develops within a certain paradigm. In phases of what Kuhn calls “normal science,” scientific research basically aims to actualize and extend a given set of accepted focal laws and logics. For example, the geocentric paradigm of cosmology drove scientific observation and progress for several hundred years. During this period, the goal of researchers was to match astronomical observations with Ptolemy’s view of Earth as the center of the world.

In the history of science, there are also periods of nonparadigmatic change. At the beginning of such extraordinary periods, scholars become insecure about the fundamentals of their science because they make observations that contradict established assumptions. These researchers subsequently challenge established assumptions and then establish a new paradigm that is incompatible with the previous, widely accepted, approach. For example, the generations of astronomers working around the time of Copernicus, Galileo, and Kepler collected observations that falsified the Ptolemaic model. These astronomers then developed a heliocentric cosmology that allowed for more precise explanations and predictions of astronomical phenomena.

The theory of discontinuous technological change assumes that technologies generally function similarly to scientific paradigms. Under “normal” circumstances, improvements in goods and services remain within established criteria of use value, and they fulfill the basic logic of how inputs are transformed into goods of higher value and how companies capture this value in the form of profits. In such phases, industries develop into stable systems of (often oligopolistic) players. Under extraordinary circumstances, however, industries become unstable because “Schumpeterian” entrants use discontinuous technologies to challenge established players.

Analogously, technological evolution has been conceptualized by Philipp Anderson and Michael Tushman as encompassing two cyclically repetitive phases: an *era of ferment* and an *era of incremental change*. An era of ferment begins with the appearance of a technological discontinuity that deviates dramatically from the established paradigm of innovation (e.g., the automobile in comparison to horse carriages). The appearance of this revolutionary concept is followed by a design competition between different technologies, all of which are incompatible with the established technology (e.g., different types of motors). As a number of new technologies are competing for dominance, decision makers become highly uncertain about which technology to adopt. An important feature of an era of ferment is that the established technology still exhibits a residual fit with the market environment (e.g., people continued to use carriages for many decades after the automobile was introduced). In other words, even though the old technology is increasingly substituted with a new technological paradigm, market segments remain in which a company can create and capture value utilizing established resources and capabilities.

An era of incremental change begins with the establishment of one dominant design. Technological progress during this second era includes elaborations of the dominant design, but, as in Kuhn’s normal science phase, no revolutionary designs (e.g., improvements of the dominant petrol engine). The era of
incremental design ends with the appearance of a new technological discontinuity and the cyclical process starts again.

Categories and Measures of Technological Discontinuities

While TDs and their consequences are the topic of a multitude of articles and books, there is no widely accepted scale for measuring the degree to which an innovation is discontinuous. Nevertheless, it is possible to integrate the different types of discontinuous technological change described in the literature by categorizing a given occurrence of technological change as a TD if that change falls into at least one of the following three domains: (a) a discontinuous change in the use value offered, (b) a discontinuous change in the value-creation process, and (c) a discontinuous change in value capturing.

Discontinuous change in the use value offered. Historically, innovation research has focused on changes in perceived use value. For instance, Richard Foster’s technology S-curve model posits that the performance evolution of a technology is an S-shaped function of the cumulated resources spent on developing that technology. This model implies that, at the end of a technology life cycle, even significant resource commitment cannot yield substantial increases in technological progress because the technology has reached its natural performance limit. At this point, a new technology may begin to compete against the old technology. Even though the new technology may initially perform worse than the established technology, it develops and ultimately exceeds the established technology’s performance level.

Clayton Christensen takes the S-curve approach one step further. As he points out in his theory on “disruptive innovations,” TDs often underperform relative to existing technologies early in the innovation life cycle. However, this is only true when performance is measured based on established performance criteria. With regard to other performance criteria, TDs often outperform old approaches. In fact, TDs alter the basis for competition by introducing new performance metrics along which firms compete. For example, such innovations are often simpler, smaller, more convenient to use, and cheaper. Consequently, technological discontinuities are typically more attractive to low-end or new customers. Furthermore, as proposed by Tushman and Anderson, discontinuous innovations are “competence-destroying” innovations: They render old resources and capabilities less important. Most importantly, established social capital and relational resources, such as knowledge about the purchasing behaviors of existing high-end customers, become less relevant relative to knowledge about low-end or new customer segments.

Christensen uses the example of personal computers (PCs), such as the Apple II, to explain technological discontinuities in the context of perceived use value. When they were first sold, PCs had much lower storage capacity than minicomputers—the leading devices at the time. Therefore, PCs appeared unattractive to the mainstream customers in the minicomputer market. However, PCs met other performance criteria that the established technology did not. For instance, they were smaller, easier to use, and cheaper than minicomputers. As a result, consumers outside the group of mainstream minicomputer users valued PCs. Over time, PC manufacturers were able to increase the storage capacity of personal computers until PCs became an attractive alternative to minicomputers, even for customers of minicomputer manufacturers.

When faced with paradigmatically different concepts of perceived use value, established companies are required to significantly change their mental models of how to succeed in their business. For instance, engineers at Digital Equipment Company (DEC), the world’s leading manufacturer of minicomputers in the late 1970s, consistently focused their efforts on increasing the storage capacity of their machines because this was the most relevant performance attribute for DEC’s main customers. As such performance characteristics as size or convenience were unimportant to their customers, they could be neglected by DEC’s research and development department. However, when the TD emerged, the same engineers were asked to focus on previously irrelevant performance attributes. Thus, engineers at minicomputer manufacturers had to change their mental model of how the computer business functioned.

Discontinuous change in the value-creation process. TDs are not only product related. They also include discontinuous developments within the processes that create value. Process innovations are important because they can increase the use value offered by a
company and lower the costs a company incurs when creating that value. Low-cost airlines, such as Southwest Airlines or Ryanair, are a good example of a discontinuous process innovation relative to the established concept of flag carriers. In fact, the purely technical part of the two technologies was not much different. Low-cost airlines built on the same components as established carriers. However, the architecture of the internal value chain of low-cost airlines was leaner and less complex than those of large flag carriers and contradicted fundamental assumptions about value creation held by the traditional players.

Discontinuous change of process architectures significantly affects the value of the different parts of an organization’s internal value chain. Such TDs make existing organizational and procedural structures obsolete, destroy the value of established core competencies, or diminish the value of existing knowledge bases. While the value created can remain the same, the processes of creating this value are systematically altered.

To some degree, Dell’s direct-sales model in the PC industry is another illustrative example of a competence-destroying discontinuous process innovation. While the value chain of Dell’s peers relied on pushing pre-configured products in the market, Dell’s model built on a pull approach whereby customers could configure the computer by themselves, pay, and receive a highly customized machine only a few days later. Dell’s business model fundamentally differed from the traditional concept of value creation in the computer industry. Furthermore, value creation traditionally flowed from procurement through production, assembly, and sales to the end customer. Accordingly, demand forecasting was an important competence in the established business model. In Dell’s paradigm, however, competencies, such as demand forecasting, were of much less importance than in the established paradigm.

**Discontinuous change in value capturing.** The value captured by a company, or producer surplus, is the difference between the price charged for goods sold by that company and the incurred costs. Recent research in the field of strategic innovation, business model innovation, and disruptive strategic innovation emphasizes the importance of discontinuous change to the way that companies capture the value they create. This literature points out that such discontinuities often entail a reconceptualization of the value network in which a company is active. As a result, old streams of income become substantially less important than new streams of income. For instance, the incumbent Microsoft captures value directly from end customers by selling its software package MS Office at a given price. In contrast, Google captures value indirectly: It provides customers with the office software Google Docs for free. To capture the value created, Google sells advertising space and other services on its platform to business customers. Thus, Google has redefined the value network in which the company operates by focusing on maximizing the value created for advertising customers instead of concentrating on maximizing the value created for consumers. In Google’s business model, the traditional source of income, namely, sales of software packages, is less important than new streams of income.

**Evolution**

The evolution of research into TDs can broadly be separated into three overlapping phases. During the initial phase, scholars primarily built on the work of Joseph Schumpeter. Schumpeter used the originally Marxist term of *creative destruction* to describe the pattern in which small, but innovative, new entrants are repeatedly able to use TDs to take market leadership from large incumbent firms. In particular, scholars focused on the inertia of established organizations in response to TDs and showed that incumbents often myopically overlook or misinterpret these radical shifts and therefore adopt them too late and too timidly. For instance, Theodore Levitt provided a classic account of the failure of North American railroad companies to adapt to the changes triggered by the advent of new technologies such as airplanes.

In the second phase, scholars were primarily devoted to explaining incumbent inertia by applying various theoretical lenses. Michael Hannan and John Freeman’s application of population ecology is particularly influential in this regard. These scholars theorized that incumbent inertia is rooted in a dilemma inherent in any organization: to succeed in stable circumstances, organizations work toward reliability, efficiency, and stability; however, efficient routines are dysfunctional in times of discontinuous change. Other prominent advances include institutionalist explanations of inertia by Paul DiMaggio and Walter Powell, research by Richard Gilbert and
David Newbery describing the effect of companies’ inherent avoidance of cannibalization, and disruptive innovation theory by Christensen.

Current research on TDs is characterized by a more nuanced account of technological change and organizational adaptation and a study of factors that might cause an established organization to resist the prevailing pattern and to overcome organizational paralysis. Many of these researchers adopt the lens of cognitive organizational psychology and show that how decision makers make sense of and interpret TDs can lead to substantial differences in how they respond. For instance, Clark Gilbert showed that organizations that perceive a given TD as a threat are more likely to invest aggressively in that innovation than organizations that perceive the TD as an opportunity. Mary Tripsas recently highlighted the role of organizational identity in the context of organizational adaptation, and Sarah Kaplan showed that CEOs’ varying levels of attention to discontinuous change can lead to differences in their companies’ response behaviors. Other recent research has focused on the influence of external constituents on incumbent reactions to TDs. In particular, Mary Benner has shown that securities analysts tend to penalize incumbents for leaving established technology trajectories. Finally, a larger body of research, kindled by Charles O’Reilly and Tushman, focuses on organizational design. These studies demonstrate that ambidextrous structures are a dynamic capability that helps organizations to capture value from TDs. Ambidexterity provides those organizational units that explore and market TDs with independence from established business routines, which is necessary to succeed in radically shifting environments.

**Importance**

Research into TDs and their effects on industrial change belong to the core of current management theory. This is not surprising given the increasing pace and amplitude of technological change in national and global economies. Many models of technological change have been corroborated by rich sets of qualitative and quantitative data. Nevertheless, theory on TDs remains a subject of debate. In particular, critics have argued that most change is continuous rather than discontinuous and that the importance of discontinuous change for managers is largely overemphasized. Others have scrutinized the dialectical notion underlying the model of discontinuous change and questioned whether the degree of discontinuity of a technology can ever be objectively measured. Finally, some opponents disapprove of the normative position of many studies on technological change, which implicitly envision the stability of industrial structures—and, as such, the dominance of established quasi monopolists—as the ultimate goal.

Research on TDs is also highly relevant for management practice. In particular, scholars in this area provide recommendations on how established organizations can work to prevent failure. Most importantly, incumbents should create ambidextrous structures, build up broad networks with diverse sets of outsiders, and enter into alliances to strategically use complementary assets to leverage the economic potential of TDs. For instance, incumbent organizations in the pharmaceutical sector have benefited greatly from alliances with new entrants when adapting to the changes triggered by the emergence of biotechnology. In these partnerships, the incumbent companies primarily contributed to the capturing of value through their knowledge and resources in the area of marketing and sales. The biotech companies, on the other hand, allowed the partnership to maximize value creation by providing the necessary know-how and skills of biotechnology-based research and development.

Similarly, research on TDs has implications for entrepreneurial start-ups. Most importantly, new entrants can exploit the generic weaknesses that incumbent organizations fall prey to when responding to discontinuous change. For instance, start-ups are more likely to succeed if they are able to launch products in market areas that are unattractive, or even systematically disregarded, by established players (for example, due to small market size, lower margins, or different performance metrics). Entrepreneurs should also systematically aim to develop innovations that contradict the tried-and-true method of value capturing, for example, by introducing modular, razor-blade business models (such as Apple’s App Store) or by disintermediating existing steps in the value chain (such as Amazon’s attempts to enter the publishing business).

Overall, however, the biggest challenge underlying all of these recommendations is that it is still difficult
for managers to know whether a new technology is going to pan out in the future, or not. Research, particularly in the area of disruptive innovation theory, suggests that certain situations improve the odds for a discontinuous technology to appear (for instance, an overserving of customer needs by established offerings or the inability of potential customers to use an existing technology). Other recent research, primarily that conducted by Ron Adner, recommends executives to take a more inclusive look at innovation by integrating the entire innovation ecosystem (specifically the innovations of complementors and suppliers that are necessary to allow your own inventions to succeed) into the equation. All scholars unanimously agree though that staying flexible and being ready to execute at the same time is paramount for long-time firm survival.

Andreas S. König

See also Dynamic Capabilities; First-Mover Advantages and Disadvantages; Innovation Diffusion; Innovation Speed; Schemas Theory; Sensemaking; Strategic Flexibility; Technology S-Curve

Further Readings


Technology Acceptance Model

The technology acceptance model (TAM) is a theory that seeks to explain how users of a technology come to accept and use a technology. Most prevalent in information systems literature, the theory, TAM, has been applied across a wide variety of organizational and national contexts and in many respects parallels the diffusion of innovation interest in the field of information systems. In this field, the need to reliably predict failures of system implementations in terms of adoption and use remains an understudied, yet critical, area of the information systems field. This entry provides in-depth fundamentals and history of the TAM, including its validity and criticism, as well as use in management research and in applied domains.

Fundamentals

TAM is an extension of the theory of reasoned action, introduced by Fred Davis in 1989, that has found a prominent place in the information systems literature as a reliable and parsimonious theory of technology acceptance. The latter characteristic, parsimony, is not just extant in the paucity of constructs and linking relationships of the theory but also in its theoretical transparency to the average person. Thus, TAM can be easily explained and accepted at face value by a lay audience, while simultaneously passing the rigor of theoretical and empirical testing fairly well. The use of TAM findings in a prescriptive manner is chief among its shortcomings.

The TAM posits that when a user is considering use of a new technology, the user forms two key perceptions (beliefs) regarding the technology: perceived usefulness and perceived ease-of-use. These beliefs are formed from external and internal influences at the individual (i.e., experience) and social level (culture, organizational policy, group norms, etc.). From these beliefs, an attitude toward using is formed by the user. Finally, intention to use is theorized as a key determinant of actual use. External variables, such as specific technology characteristics and individual attributes, are posited to be mediated by, and even antecedents to, beliefs. Perceived usefulness was originally defined by Davis in 1989
Technology Acceptance Model

as “the degree to which a person believes that using a particular system would enhance his or her job performance” and perceived ease-of-use as “the degree to which a person believes that using a particular system would be free from physical and mental effort” (p. 320). Thus, the more an individual believes that a technology will enhance their job performance and the less they believe the effort will be in using the technology, the greater the intention to use it. The original theory also included the specification of external variables that would have influence on perceived usefulness and perceived ease-of-use. In early studies, these external variables were chiefly technology characteristics, but that would change quickly.

Over the past two decades, the TAM has been empirically tested and has evolved from its initial model to incorporate greater breadth of external influences, antecedents of the principal independent variables, and testing of theoretical relationships between constructs. Researchers would find that intention to use (i.e., behavioral intention) was a better predictor of actual use and that attitude toward use was neither empirically or theoretically necessary in the model. Furthermore, comparisons of the TAM to the theory of planned behavior and the theory of reasoned action showed that the TAM was equally as predictive, and greatly more parsimonious, than either of the more sophisticated models at predicting intention to use. A new model, TAM2, introduced by Viswanath Venkatesh and Davis a decade after TAM, incorporated social influence (e.g., subjective norms, voluntariness, image, etc.) and cognitive process (e.g., job relevance, output quality), related constructs that had been explored and validated by researchers over the first decade of empirical and theoretical refinement. TAM2 was found to be a valid expanded specification of the original TAM model in a series of four longitudinal studies in both voluntary and involuntary implementation settings. TAM2’s incorporation of additional construct antecedents, systems characteristics, and contextual measures responded well to the oft-stated criticism of theoretical simplicity. A final revision by Venkatesh and Hillol Bala in 2008, called TAM3, further specified antecedents to perceived usefulness from TAM2 and included work introduced on anchoring and adjustment from research on framing in decision making as antecedents of perceived ease of use, which fully specified and merged the preceding two decades of research of TAM into a single model.

In all, the TAM has been well cited, studied across a diverse set of technologies from voicemail to presentation software to decision support systems, in a broad range of cultures from the United States to Europe to Asia and among a cross section of users from students to doctors, programmers, and brokers. While providing ample evidence to support the validity of the TAM, this research also demonstrated that perceived usefulness was a more powerful predictor of intention to use, thus, sparking more focused study on the possible antecedents of perceived usefulness. TAM2 was found to be valid in environments of either mandatory or voluntary use and extended the antecedents of perceived usefulness, while TAM3 further included expansion with respect to ease-of-use and social context. Ironically, the TAM in all its forms has failed to provide more than a descriptive view of technology adoption and remains locked at the micro level of individual use. Nonetheless, the TAM holds promise in the area of information systems research as it has matured sufficiently for prescriptive strategies to be proposed.

Importance

Despite its high citation rates, extensive reliability testing, and overall robustness across contexts, the TAM is not without criticism. The number and sophistication of these criticisms varies wildly, but there are some common themes. Among these are the criticisms of the deterministic specification of technology use predicted by only two belief constructs (perceived usefulness and ease-of-use) leading to intention to use leading to actual use. The root of these criticisms stems from the individual behavior level of analysis which effectively negates an understanding of the strategizing that is often the context of technology adoption where the actualization of intention is constrained, or even blocked, because of an external constraint or social processes. For example, the intention-actual use link may be modified by a preferred vendor agreement, a marketing campaign, or the implementation strategy of the technology itself. This criticism also rises above a purely theoretical criticism pointing to a broader effect on prescriptive strategies born of the research using the model. This is due to the fact that any effective
Technology Acceptance Model

strategy for improving technology adoption, in even a small scale, requires a level of analysis above the individual. Even if the summation of individual intentions is employed as a surrogate for collective behavior, the overall prediction confidence is likely below 50%, well short of engineering desires, but nonetheless useful to improving on the success rates of modern information systems implementations.

Despite the theoretical limitations that may lead to prescriptive faults, criticism of the TAM’s lack of application in mitigating a surprisingly low implementation success and intended adoption rates are common. In many respects, the context in which the TAM is studied is often a single adoption and not a series of adoptions or adoptions in which the strategy of attaining a certain level of adoption is the goal. The consequence is that learning and social influence remain relegated to preadoption beliefs alone. The theoretical criticism leveled above reenters here in that all technology use is adopted in a social context and so too must the prescriptive strategies leading to more successful adoption.

Notwithstanding the limitations, there has been limited progress on the prescriptive implications by Venkatesh and his colleagues in the form of a proposed unified theory of acceptance and use of technology and TAM3. In one case, the TAM constructs were conceived of in more prescriptive fashion, which gleaned a somewhat prescriptive strategy that is in line with the impetus of the original research. This research adapted the TAM measures into a usefulness/ease-of-use two-by-two model of attributes conceiving of and testing four implementation strategies for a technology in the human computer interface context.

The impact of TAM, in all its forms, lies in two areas. The first is the pursuit of understanding how users select which technology to use. In this respect, TAM is a parsimonious theory with a relatively rich history and robustness of application. Although perhaps simplistic and obvious, a managerial takeaway from this is that one should carefully balance the management of perceived usefulness and ease-of-use in technology implementations, perhaps even equally with budget changes, deadlines, and other project management considerations to better ensure intended use. The relative cost of efforts to influence or understand perceptions to the financial cost of modern technology projects can thus yield significant returns or savings in any given project.

The second is the ability to provide sufficient understanding and predictive power such that user intentions can be incorporated fruitfully into and implementation and adoption strategies. In this respect, the TAM falls short. Development in this area would further solidify the TAM in the information systems adoption field and would likely allow the theory to find application and connection to broader innovation diffusion and technology literatures. Nonetheless, managers should solicit and value user intentions, perceptions of usefulness, and ease-of-use in their implementation planning and implementation. This consideration also serves in reducing counterimplementation efforts by users as well as reducing time to technology adoption. Again, the financial costs of enterprise implementations and the pervasiveness of their impact to an organization may compound the negative effects of ignoring basic TAM prescriptions.

Edward W. Christensen

See also Decision-Making Styles; Innovation Diffusion; Theory of Reasoned Action

Further Readings


Information systems are combinations of devices, software, data, and procedures designed to address the information processing needs of individuals and organizations. Examples include electronic mail and social networking tools as well as enterprise-level applications for financial management, decision making, production planning, and so forth. The pervasiveness of information systems in organizational practices and daily life makes their study increasingly critical for management theory. There is no single theory of management information systems (MIS). Rather, the term refers to a broad class of conceptual frameworks developed to understand and explain the design, use, administration, and consequences of information systems. One framework that is used increasingly to study how people and organizations use information systems and how the use of information systems affects individuals, organizations, and their performance, is a framework we refer to as technology affordances and constraints theory (TACT). TACT’s essential premise is that to understand the uses and consequences of information systems, one must consider the dynamic interactions between people and organizations and the technologies they use. In this entry, we first explain the major theoretical constructs and focus of TACT and then discuss its importance for management theory.

**Fundamentals**

The concept of technology affordance refers to an action potential, that is, to what an individual or organization with a particular purpose can do with a technology or information system; technology constraint refers to ways in which an individual or organization can be held back from accomplishing a particular goal when using a technology or system. Affordances and constraints are understood as relational concepts, that is, as potential interactions between people and technology, rather than as properties of either people or technology. Affordances and constraints are best phrased in terms of action verbs or gerunds, such as “share knowledge” or “information sharing.” Other examples include “working anywhere anytime” and “introducing like-minded people to each other” and “preventing proscribed organizational practices.” Affordances and constraints are distinct from technology features, which are functionalities built into information systems either by design or by accident. For example, “a shared communication space accessible by all users” and “the automatic calculation of raw material orders from data about a new sale” are examples of technology features and functionality. Affordances and constraints are also distinct from human and organizational attributes, such as tasks, needs, and purposes. Finally, a distinction is made between affordances and what was afforded by the use of the technology: Affordances refer to action potentials that technologies represent for users with certain characteristics and purposes, while “afforded by” is employed when examining use that occurred for a particular purpose within a particular context.

The value of having the relational concepts of technology affordances and constraints that are distinct from both technology features and human purposes is that they help explain two common empirical observations. First, people and organizations do not always realize the apparent potential of a technology when they use it. Second, people and organizations sometimes or often use technology in ways that designers never intended. As relational concepts, affordances and constraints facilitate the scholarly understanding that what one individual or organization with particular capabilities and purposes can or cannot do with a technology may be very different from what a different individual or organization can do with the same technology. For instance, social networking software may afford different patterns of technology use and consequences in organizations with cultures that reward information sharing than in organizations with cultures that reward information hoarding. At the same time, patterns of technology use and consequences cannot be understood solely by reference to human and organizational attributes, such as culture, but must also be understood in relation to the features of particular technologies. For example, the uses and outcomes of social networking technology in organizations may depend on differences in the social networking software they use (text-based messaging software versus a virtual reality system).

TACT can be used to study either the unique technology-involved practices of particular individuals
Technology Affordances and Constraints Theory (of MIS) 833

...or organizations or the patterns of similarity and difference in technology uses and consequences across individuals or organizations. Scholars employing TACT can come at technology uses and consequences from either direction. That is, they can hypothesize about affordances and constraints by first analyzing the features and functionalities of a technology, such as asynchronous message transmission. Or they can start by analyzing human and organizational purposes, such as the desire to have effective teams with geographically distributed members. However, scholars employing TACT do not stop either at features or purposes, but rather, they continue by examining interactions among them. Thus, one TACT researcher may describe how an organization uses the affordances of electronic communication technology to keep projects going nonstop: At the end of a workday, one co-located team “passes” the project to another co-located team just starting its workday elsewhere in the world. Another TACT researcher may determine that electronic communication technology affords development of shared identity in some virtual teams, while affording the development of enhanced individual self-efficacy in another.

Regardless of whether a scholar’s focus is on the unique practices observed in particular settings or in transcontextual patterns, researchers who employ TACT emphasize the potential actions that technologies with particular features afford (or hinder) for people and organizations with particular purposes and characteristics. TACT scholars then use the concepts of affordances and constraints to interpret or explain people’s technology uses and consequences. Again, affordances and constraints are understood as conceptual relations between people and organizations and their technologies—they are the action potentials or potential stumbling blocks that people can draw on or may encounter when using a particular technology.

Importance

Management scholars commonly explain technology uses and consequences with psychological, sociopsychological, or sociological theories. When they consider technology at all, they use simplifying assumptions, for instance, about communication being “synchronous” or “asynchronous” or about media being “rich” or “lean.” These theories have several limitations for scholars interested in the role of technologies in human and organizational behavior. First, existing theories may privilege “natural” human behavior over behavior that involves or is mediated by technology. For example, face-to-face communication is considered to be the baseline against which all mediated communication seems impoverished or diminished in some way. This privileging of the natural ignores the possibility that humans using technology can often enact new practices or achieve outcomes that could not occur without the use of technology. An example is the ability of people using social media to find and develop intense personal relationships with like-minded others whom they have never met face-to-face.

Second, existing theories may assume that technology is fixed and immutable. This assumption blinds researchers to the possibility of people using technology in “unintended” ways. For instance, electronic mail is commonly understood as a technology that supports asynchronous and cross-location communication. However, people sometimes use electronic mail to communicate synchronously with people sitting right next to them. They may do so because email affords them creating a written record of the communication that can be shared with third parties and referred to later to follow up on requests and promises. Alternatively, they may do so because email affords them the opportunity to engage in organizationally required communication with people they do not like. In addition, people and organizations often modify apparently fixed technologies, such as by combining them with other technologies and practices. For instance, some organizations combine enterprise software with “business intelligence” technology in ways that afford dramatic changes in their decision-making processes and performance.

By contrast to most existing management theories, TACT avoids both limitations discussed above by explicitly focusing attention on the nondeterministic interactions between people or organizations and the technologies they use. On the other hand, TACT itself has a few disadvantages. First, because TACT is a relatively new framework for the study of individual and organizational technology uses and outcomes, there is inconsistency in the terminology used by TACT scholars, and controversies exist over some core concepts and assumptions. For example, some scholars refer to what we call TACT using the label of sociomateriality. One
core controversy concerns the ontological status of “technology.” Some TACT scholars assert that technology is inseparable from (that is, has no ontological existence apart from) the ways in which people and organizations use it. These scholars refer to “technology-in-use” and consider the distinction between technology and human or organizational use of technology to be analytical only. Other TACT scholars accept an ontological distinction between technology and individual or social practices; that is, they believe that technologies have features and functionalities regardless of whether humans recognize or use them. These scholars acknowledge, however, that technology and social practices are tightly intertwined in a way that is sometimes called “imbrication.”

A second limitation of TACT attributable to its relative newness is that there are as yet few empirical studies, and most TACT studies to date are individual case studies. As a result, TACT scholars have not made much progress toward consensus about the existence, nature, and naming of technology affordances and constraints across contexts or technologies. In part, this is a function of the granularity of analysis. If technology analysis is fine-grained and each setting is treated as unique, there are virtually infinite combinations of technology and human or organizational behavior. Conversely, if the scope is broad enough, that is, if all instances of a class of technologies (e.g., enterprise systems) or even all information technologies are considered at once, the “general” affordances and constraints may be so few in number and so abstract that they are not useful to other scholars. For instance, for the class of decision support systems, the accepted affordances and constraints (“guidance” and “restrictiveness”) are quite general and can be interpreted as synonyms for affordance and constraint. Similarly, “simplification” has been proposed as an essential affordance or constraint of information technology as a whole. The abstractness of such concepts seems likely to hinder efforts by other scholars to apply them. Over time, an accumulation of TACT studies may enable scholars to agree on the most productive levels of abstraction and generality for the identification and description of affordances and constraints.

In sum, for TACT to generate testable predictions about human and organizational behavior and outcomes, the concepts of affordance and constraint should be concretely examined for particular categories of technologies and use settings. While examining technologies and uses concretely may deter some scholars, it actually makes TACT appealing to some scholars, including those who aim to build theory, those who aim to interpret human and organizational technology-use behavior, those who aim to construct post hoc explanations of behaviors and outcomes in individual case studies, and those who are interested in more precisely defining alignment, or fit, between people and technology.

Despite its recentness and current limitations, technology affordances and constraints theory holds great promise for contributing to the scholarly management literature. TACT overcomes the limitations of theories that focus only on psychological or social behavior thereby ignoring the features and functionalities of information technology altogether and of theories that make simplistic and deterministic assumptions about the effects of information technology on human behavior and organizational outcomes. TACT overcomes these limitations by advancing technology affordances and constraints as relational concepts linking people and technology.

TACT also has significant implications for improving management practice. Specifically, insights from TACT can help managers achieve more successful technology implementations, that is, higher levels of expected uses of technology, beneficial innovations in technology use, positive outcomes, and fewer unintended negative consequences. Using TACT gives managers guidance about what to do before technology implementations: how to assess users’ needs and capabilities, modify technology features (e.g., by disabling some capabilities and setting default parameters), make changes in work practices and processes to achieve greater alignment, and provide proper support structures (e.g., training, communication, and help services). In short, considering the relationships between people and information technology, using TACT makes better “systems thinkers” of today’s managers.

Ann Majchrzak and M. Lynne Markus

See also Actor-Network Theory; Adaptive Structuration Theory; Decision Support Systems; Information Richness Theory; Sociotechnical Theory; Structuration Theory; Systems Theory of Organizations
Further Readings


**Technology and Complexity**

The increasing pace of globalization; unrelenting innovation in technology; pressure for sustainable management of ecological, human, and technological resources; and the need to manage associated complex interrelationships are creating a challenging organizational environment for managers. Such challenges have been well documented around efforts to create order, predictability, and efficiency in heavy change. The globalization of new technologies and the alignment of economic, social, political, and cultural systems are generating simultaneously new forms of order, while also increasing complexity for managers. The word *technology* derives from the Greek word *technologia* combining *téchnē* (art, skill, craft) and *logia* (study of). It can be used as a general term or to refer to specific areas, such as information and computer technology, biotechnology, and so on. Technology can be defined narrowly as the development, usage, and knowledge of tools, techniques, or machines to perform specific functions or solve problems, or, broadly to include organizational design and culture, including procedures, systems, and methods used to achieve specific outcomes. Under this latter definition, managing the design of a sociotechnical interface would be an application of technology itself. Such a broad interpretation also illustrates the dynamic, iterative, and interactive relationship between technology and complexity; each concept invokes the other to frame the nature and scope of the managerial challenge. Complexity theory provides insights into this dynamic. Constituting a critique of multiple theories derived mainly from the natural and social sciences, it is concerned with understanding how order appears to emerge rather than be imposed in complex environments. Leadership and management theorists suggest that this body of literature provides insights into effective management philosophies, mind-sets, and practices in dynamic, complex, and uncertain environments. This entry identifies critical constructs to explain dynamic interactions between technology and complexity systems that raise issues for management theory and practice.

**Fundamentals**

*Change, Technology, and Complexity*

The need to accommodate constant and dynamic change in and between organizations has challenged linear systems thinking, particularly reductionist and narrow views concerning the roles of the human and the technical in effecting change. Following World War II, debates highlighted differences between the effects of controlled (cybernetics) and uncontrolled systems on change processes. Management science, still influenced by Newtonian thinking, strove to determine systems inputs and transformations to move systems toward equilibrium, the latter seen as both desirable and achievable. Technology was often seen as a means of standardizing rules and processes around interventions toward this end.

Since that time, management theory has increasingly questioned the extent to which such equilibrium states can be achieved through top-down control-based technologies, increasingly recognizing
Technology and Complexity

the disruptive and discontinuous nature of change associated with technology. An understanding of core management concepts associated with technology and complexity introduced here include models of complexity theories, an exploration of dynamic interactions between complexity and technology, and the impact of technology on organizational design, including the structure of work.

Characteristics of Complexity Theories

Complexity theories attempt to exemplify how order emerges in nonlinear, complex, dynamic systems characterized by conditions of high uncertainty and ambiguity, often described as “the edge of chaos.” In complex systems, causes and effects are difficult to identify, and order emerges unpredictably through iterative processes of self-organization, guided by the operation of simple order-generating rules to meet contextual challenges. Models identified as useful analogies for leading and managing in complexity include the following:

Chaos theory—Describes dynamic systems connected nonlinearly in constant states of irreversible change, very sensitive to changes in initial conditions with amplification of initial differences creating impetus for unique change reactions.

Dissipative structures—Constitute systems that spontaneously transform into new structures under pressure. However, whereas in the natural sciences water will transform predictably into steam under high temperatures, in the social sciences, characteristics of the future ordered state of the system is unknowable, reacting to diverse and shifting pressures that can impact differently on individuals and groups.

Complex adaptive systems (CAS)—Describes order that emerges through the actions of agents (i.e., semiautonomous units, groups, systems, or individuals) within or on the system as they seek to maximize their fitness of purpose in response to dynamic environments. Developments within a CAS are unpredictable and irreversible.

Complex responsive processes—View changes in the complexity of open ended, unpredictable human interactions as iterative exchanges produced outside rigidly defined system boundaries, producing innovation and increasing learning, knowledge creation, and novelty.

Complexity Theory and Technology

Complexity theory is useful in conceptualizing the relationship between technology and underpinning social processes. Sociological theory suggests that technology is socially located in that it undergoes a process of transformation based on its actual use; that is, the relationship between technology and complexity is not necessarily discrete, linear, static, or even rational. Rather, it is seen to be dynamic, unpredictable, iterative, and interactive. Effective deployment and management of technology requires understanding what constitutes a technological solution, its purposiveness, and how skills, perceptions, and utilization of technological initiatives influence the design and emergence of order-generating processes that will affect its nature and ultimately its outcome. These critical interactions are deliberate but not fully structured.

Technological innovation has been instrumental in redesigning business models to create dynamic organizational structures and related systems design for achieving sustainable, nimble, and adaptive organizational responses to complex environments. Managerial decision making around technology is complex as it concerns economic, social, and political choices around allocation of resources and power. A key concern for academics and practitioners has been the impact of technological innovation on organizational structure as well as the labor process itself.

Perrow’s Model of Technological Complexity

Numerous studies have investigated the complex relationship between technology and organizational structure. In the 1960s, Joan Woodward suggested three levels of technological complexity associated with small batch production (customized), mass production (e.g., the auto industry), and continuous process (e.g., chemical plants). Also, James D. Thompson suggested that different technologies raised organizational design issues of varying levels of complexity that concerned the extent of their interdependence and coordination to fulfill organizational tasks effectively. Different types of technologies underpinned mediating roles (e.g., between lenders and borrowers by banks), long-linking roles (e.g., assembly lines), and complex interdependencies of intensive technologies (e.g., construction projects). In 1967, Charles Perrow identified two
features of technology which he claimed influenced organizational structure: (a) variability, determined by the level of routine embedded in the task and uncertainty in the environment; and (b) analyzability, reflecting the extent to which task-related problems are analyzable because there is an existing body of knowledge that can also inform assessment of employee performance. The interactions between these dimensions allowed him to identify four types of technologies: routine technologies, such as those in manufacturing (analyzable with low variation); engineering or planned contingency technologies (analyzable but with many exceptions); craft technologies (unanalyzable but with low variability); and nonroutine technologies, such as research that is both unanalyzable and has high variability. Each of these categories had different implications for the level of formalization and centralization of management control.

Importance

Technological complexity impacts management research and practice from both a structuralist-functionalist as well as interpretivist perspective.

Perrow’s structuralist-functionalist approach purports organizational structure as being the outcome of technology choices and operations to get work done. His categorization of technology types provides key insights into organizational features, such as centralization and spans of control, levels of management, and formalization of processes and roles. However, his model might also be seen as accommodating a dynamic appraisal of the relationship of structure to other contingency factors affecting organizational design, such as organizational goals, strategy, culture, and environmental pressures.

A broader perspective suggests that complex and dynamic technologies have produced both positive and negative “externalities,” or spill-over effects, for the broader community. Although benefit has been derived from specific technological innovations, such as increasing telecommunications access through the global Internet or accessing life-saving technologies and drugs, the deployment of technology can also result in unwanted byproducts such as pollution, toxic waste, depletion of finite and precious natural resources (sometimes spanning generations), costly accidents in high-risk systems with interactive complexity in the presence of tight coupling, as well as dehumanizing and de-skilling the work process itself.

Technology choice and its application can influence and be influenced by societal values, often raising tension-ridden ethical questions. For instance, while the ethics associated with technologies, such as embryonic stem cell research, may be easily perceived, communities may be less able to identify value conflicts associated with technology as an instrument to increase human productivity. For example, Frederick W. Taylor’s pursuit of machine-like efficiency in human productive effort, while producing significant output gains, was claimed to have dehumanized workers through breaking labor tasks into minute processes controlled by detailed instructions. Fordism’s system of mass production, while delivering initial gains in output, was also deemed to dehumanize workers through standardization of automated processes in continuous assembly lines that increased absenteeism. In response, the Ford Motor Company claimed to have redressed worker boredom and alienation through monetary incentives and stability of employment. The advent of the Internet has seen a resurgence of scientific management technologies in customer service call centers, raising similar issues around ethical and sustainable work practices.

In the 1970s, Harry Braverman rejuvenated critical scholarship on the labor process debate within the social sciences. Applying the Marxist theory of surplus value, he rejected an analysis of work effort from the perspective of only individual and management practice, highlighting the consistent diminution of control by labor over the labor process under capitalism. He concluded that technology could be used both as a tool to achieve erosion of worker influence over their productive processes, and, to upgrade worker skills. More recent critique has resurfaced concerning the de-skilling of workers by subdividing and automating tasks through, for example, content management systems.

In the late 20th century, Peter Checkland’s soft systems methodology emphasized the need to understand holistically how systems work. This was a precursor to agile software development methodology in which a range of stakeholders are involved in iterative processes from specification through to acceptance testing of software solutions. Technology as a homogeneous and stable concept has also
been challenged by Jonathan Sterne, who saw it as an alternative and specific form of social practice subject to constantly changing power relations and agency influences. He argued that technologies are cocreated by designers, implementers, and end users, incorporating historical perspectives on social structure embodied in spontaneous and creative initiatives of stakeholders.

Organizations benefit economically from the development of new technologies and the implementation of existing technologies that facilitate increased efficiencies in resource deployment. It is also important that management understands to what extent technology leads to improvements in human well-being and benefits society, or is diminishing physical and human resources thereby alienating stakeholders.

Literature and research that has recognized the contribution of technology to organizational complexity has highlighted the management challenge in interpreting an appropriate level of holism in the design, application, and adaptation of technology, acknowledging the complexity of social process. Considerations might include organizational design to facilitate improved interaction between designers, implementers, and users of technologies; responsible leadership facilitating adaptive systems and processes rather than reproducing hierarchical and autocratic structures; acceptance that multiple stakeholder interactions will shape a culture of sustainable and effective technological solutions; and motivating and rewarding contributions derived from structure, spontaneity, and creativity as appropriate.

Dianne Bolton

See also Complexity Theory and Organizations; Environmental Uncertainty; Quantum Change; Systems Theory of Organizations; Technology and Interdependence/Uncertainty

Further Readings


TECHNOLOGY AND INTERDEPENDENCE/UNCERTAINTY

James D. Thompson proposed a theory of management that focuses on the critical role of uncertainty in determining organizational action. His 1967 book *Organizations in Action: Social Science Bases of Administrative Theory* is considered one of the classic works of organizational theory and has inspired later theories of organizations, such as contingency theory, institutional theory, and resource dependence theory, among others. Some of the concepts developed by Thompson, such as the role of interdependence, uncertainty, and technology in organizational structure and action, are at the core of management theories even today. Therefore, it is essential for students, scholars, and practitioners of management theory to understand the ideas proposed in *Organizations in Action*. The following entry first describes the theory as developed by Thompson in his 1967 book, then the subsequent evolution of the theory, and finally its importance.

Fundamentals

Thompson developed a sophisticated and detailed theory that is concerned with the explanation of the structure and functioning of modern complex organizations. He created multiple typologies and many propositions. These typologies and propositions are valid for any organization, including corporations, universities, nonprofits, and governmental organizations.
Core Concepts and Typologies

The core concepts in the theory are uncertainty, technical rationality, organizational rationality, interdependence, structure, and task environment. Also, two typologies are central to Thompson’s theory: types of organizational technologies and types of internal interdependence. These concepts and typologies are explained below followed by the relationships among these concepts and the rationale behind these relationships.

Uncertainty can be understood as the opposite of determinate: Under conditions of uncertainty, there are more variables in the system than the actor can make sense of, or at least, some of the variables are not predictable or controllable by the actor.

Technical rationality is a system of cause-effect relationships which leads to a desired result, whereas organizational rationality also involves input and output activities to the technical rationality.

Structure is the internal differentiation and patterning of relationships.

Task environment, as proposed by William Dill, refers to the parts of the environment which are relevant or potentially relevant to goal setting and goal attainment. There are four elements of a task environment: (a) customers; (b) suppliers of materials, labor, capital, equipment, and work space; (c) competitors; and (d) regulatory groups.

Interdependence refers to the dependence of units within an organization to each other (i.e., internal interdependence) and also the dependence of an organization and its environment to achieve a common goal (i.e., interdependence with the task environment). There are three types of internal interdependence. Pooled interdependence refers to the condition under which each part makes a discrete contribution to the whole, and each is supported by the whole. It is illustrated by two different geographical branches of a bank. Sequential interdependence refers to the condition under which part X has to complete its part successfully before part Y can act, and part X cannot find use for its output if part Y does not act. It is illustrated by a production plant for tires and another plant for cars. Reciprocal interdependence refers to the condition under which the outputs of each unit are inputs for the other. It is illustrated by the operations and maintenance units of an airline company. The operations unit’s output is an aircraft needing maintenance and is an input for the maintenance unit, whereas the maintenance unit’s output is a usable aircraft which is the input for the operations unit. All organizations have pooled interdependence, more complex ones have sequential interdependence, and the most complex ones have all three types.

The purpose of complex organizations is to operate technologies which are impossible or impractical for individuals to operate. Thompson creates a typology of technologies for complex organizations which includes three different types. The first type is the long-linked technologies which include serial interdependence in the sense that action Z can be performed only after the successful completion of action Y, which can be performed only after action X, and so on. An example of long-linked technology is the mass production line. The second type of technology is the mediating technology which involves the linking of clients or customers who are or wish to be interdependent. For example, banks link lenders and borrowers. The third type of technology is intensive technology which involves bringing together a variety of techniques in order to achieve a change in a specific object. The selection, combination, and order of application of the techniques are determined by feedback from the object of interest. A general hospital is a good example of intensive technology: Each emergency admission requires some combination of dietary, X-ray, laboratory, medical specialties, pharmaceutical, and other services, and the choice depends on the condition of the patient.

Main Arguments

The first fundamental premise of Thompson’s theory is that organizations are not only open systems, hence indeterminate and facing uncertainty, but also subject to criteria of rationality and therefore need determinateness and certainty. An organization’s technical core is subject to technical rationality and should be protected from uncertainty by reducing the number of variables operating on it. At the same time, at the institutional level, uncertainty is found to be greatest, and an organization has to deal with its environment over which it has no formal authority or control. The purpose of the managerial level is to mediate between the closed-system perspective at the technical level and the open-system perspective at the institutional level.

The second fundamental premise is the existence of two different types of “rationalities”: technological rationality and organizational
rationality. According to Thompson, organizational rationality is different from technological rationality since it operates within open-systems logic. When the organization is open to environmental influences, this organizational rationality is a result of (a) constraints, which the organization must face; (b) contingencies, which the organization must meet; and (c) variables, which the organization can control.

Building on these premises, Thompson argues that organizations seek to reduce uncertainty stemming from the task environment through strategic actions. These actions can be internal to the firm (e.g., forecasting) or aimed at reducing dependency on external elements (e.g., seeking alternatives). Structure of the organization is determined by (a) the organization’s response to external uncertainties, (b) interdependencies within the technical core, (c) the needs of boundary spanning units to adjust to environmental constraints and contingencies, (d) and finally by the relationship between the technical core and the boundary spanning units. Uncertainty is also critical in determining how organizations measure their performance, for the relationship between the individual and the organization, and also in how decisions are made in organizations. These arguments are explained in more detail below.

**Rationale**

Organizations seek to reduce the uncertainty around their technical core by sealing it off from environmental influences, since the efficient functioning of the technical core requires certainty. However, organizations also have to deal with input and output activities to the technical core, which are interdependent with the technical core and also with the larger environment. As a result of this interdependency, organizational rationality demands the logic of an open system, and therefore, achieving a complete isolation is never possible. In order to deal with this dilemma, organizations follow multiple strategies. First, organizations seek to buffer their technical core by managing their input and output components. For example, in an unstable market, organizations stockpile supplies in order to guarantee a steady flow of inputs, and at the demand side, they maintain inventory in order to allow the technical core to function at a steady rate. The second strategy is that they aim to reduce fluctuations in the environment by smoothing out the input and output transactions. For example, utility companies offer inducements for low-usage periods, while charging premiums during peak periods. The third strategy is that organizations seek to forecast and adapt to environmental changes, which cannot be buffered or smoothed out. If there is a pattern to the changes, such as peak sales before holidays or seasons, they adapt to this patterned increase in demand. When the changes in the environment are not patterned, but they result from a combination of many factors and are complex in nature, then organizations seek to forecast the changes through the use of different forecasting methods. Finally, when all else fails, organizations resort to rationing. An example of rationing is seen clearly in emergency situations when hospitals ration beds by establishing priority systems for nonemergency admissions.

Organizations and their task environments are interdependent, and as a result, the actors in the task environment have power over the organization. Organizations seek to minimize the power of these actors by different strategies. The first strategy is maintaining alternatives to each actor. For example, a firm will have multiple suppliers for a certain input. The second strategy is to seek prestige, which is the “cheapest” form of power according to Thompson. The logic behind this argument is that the environment can find exchange with a prestigious organization to be beneficial, which gives a certain degree of power to the focal organization. The third strategy is that organizations seek power relative to those on whom they are dependent, which can be achieved by contracting, co-opting (e.g., acceptance of representatives of other organizations into the board of directors), or coalescing (i.e., forming a joint venture). Finally, if an organization is constrained in some areas of the task environment, it will seek more power in the remaining areas, and if that is not possible either, the organization will seek to extend its task environment.

Organizations may remove or reduce contingencies through organizational design. Boundaries of organizations are determined by activities, which would be critical contingencies if they were left to the task environment. Different types of technologies are associated with different kinds of crucial contingencies, and therefore, the type of technology affects boundaries. Organizations with long-linked technologies seek to expand their domains through vertical integration, those with mediating technologies by
increasing the populations served, and those with intensive technologies by incorporating the object worked on. Also, organizational growth is seen as a dynamic process. Organizations extend their boundaries to incorporate the sources of contingencies, which leads to excess capacity compared to the planned goal. In this case, the organizations seek to grow until the capacity is filled. When this is not possible, they will seek to enlarge their domains (i.e., horizontal diversification).

The structure of the organization depends on the types of interdependence across organizational units of an organization. Organizations aim to minimize coordination costs when grouping positions. Pooled interdependence is coordinated by standardization, which is the least costly form of coordination. Sequential interdependence is coordinated by planning. Reciprocal interdependence is coordinated by mutual adjustment, which is the most expensive form of coordination. Since mutual adjustment is the most costly, organizations will group the reciprocally interdependent positions together, followed by sequentially interdependent positions, and finally, they will group positions homogeneously to achieve standardization. After this grouping, following the same logic, organizations will link these groups into higher order groups thus creating a hierarchy.

Structure is affected not only by the coordination of interdependent parts in the technical core but also by the need of boundary-spanning units to adjust to environmental constraints and contingencies. Thompson identifies two critical dimensions of the task environment that are relevant: degree of stability and degree of homogeneity. When organizations face heterogeneous task environments, they identify homogenous segments and establish structural units to deal with each. Organizations facing stable environments will rely on rules to adapt to this environment. When the range of instability in the environment is known, organizational units will first treat this as a constraint and adapt multiple sets of rules for different conditions. When the instability is too large or unpredictable, the organizational units will monitor the environment and plan responses, which require decentralization.

Furthermore, the relationship between the technical core and the boundary-spanning organizational components affect the organizational structure. When they can be removed from each other except for scheduling, organizations will be centralized with a structure based on functional divisions. When the components are reciprocally interdependent, these components will be segmented and arranged in clusters dedicated to a specific domain, creating a decentralized structure based on product divisions.

Uncertainty also plays a crucial role in how organizations measure their performance. The two important criteria here are the standards of desirability and the understanding of cause-effect relations. Standards of desirability (of multiple goals) can vary from crystallized to ambiguous, while understanding of the cause-effect relationships can be complete or incomplete. In stable task environments, organizations are measured against past performance, while in dynamic environments, they are measured in comparison to other similar organizations. Organizations also will emphasize criteria that are most visible to important task-environment elements and the criteria that are extrinsic rather than intrinsic. Similarly, organizations assess their own components in terms of efficiency when technologies are perfected and task environments are stable or well buffered. If those conditions are only met to some extent, then organizations seek to account for interdependence and assess each unit in efficiency terms. But if cause-effect relationships are not well understood, organizations will measure their components in terms of organizational rationality.

Evolution

The organizational theory field developed two conflicting world views in the early 20th century: closed-system perspective and open-system perspective. Closed-system perspective included the scientific management theory of Frederick W. Taylor, the administrative management theory of Luther Gulick and Lyndall Urwick, and the bureaucracy theory of Max Weber, whereas open-system perspective included studies of informal organizations by Fritz Roethlisberger and W. J. Dickson and administrative theories of Chester Barnard, Philip Selznick, and Burton Clark. One of the fundamental conflict points between these two perspectives was the treatment of uncertainty. Closed-system perspectives have a high need for predictability and are inclined to get rid of all uncertainty or treat it as exogenous as a determinate system helps with predictability, and uncertainty makes things unpredictable. On the other end of the spectrum of uncertainty, the
open-system perspectives takes uncertainty as a given and assumes the system is indeterminate. The theory of Thompson addresses this dilemma directly through a synthesis of these two conflicting views about organizations by building on Talcott Parsons's three distinct levels of responsibility and control: technical, managerial, and institutional. The technical level refers to the suborganization in which the technical function or the technical core of the organization functions. A typical example of this level is the assembly line, and the central problem at this level is the effective and efficient performance. The managerial level services the technical suborganization by mediating between the technical organization and those who use its products and also by supplying the necessary resources to it. Finally, the institutional level refers to the larger environment in which the organization is embedded and is the source of the legitimacy for the organization's goals.

Thompson also extended and integrated the work of Richard Emerson on power, the works of J. March, H. Simon, and Chester Barnard on bounded rationality, coalition building, and inducement and contributions to look at the dynamics of the relationship between the individual and the organization. There are two fundamental issues here. First is how organizations reduce the uncertainty from the behavior of their individual members. Second is how organizational members exercise discretion.

To explore the first question, Thompson builds on the inducements and contributions theory. The contract that is signed between the individual and the organization is determined through a political power process. This process varies from collective action and collective bargaining in routinized technologies and early-ceiling occupations in intensive technologies, to the relative power of the task-environment elements, individual abilities, and individual visibility at the contingent boundaries of the organization and late-ceiling occupations. Individuals will try to avoid discretion when they believe that their understanding of the cause-effect relationships is not adequate or the consequence of error in discretion is high. When options are available, individuals will choose to select tasks which promise to improve their scores on assessment criteria and seek to report successes but not failures. Furthermore, coalition building is an important part of the discretionary process, since highly discretionary jobs involve a political process and individuals in these jobs need to maintain power equal to or greater than their dependence.

The foregoing discussion forms the background for exploring the second question on power and coalitions. It suggests that the discretion in organizations is taken by a dominant coalition, and the more numerous the areas needing decision making, the larger the dominant coalition will be. If the dominant coalition gets too big, then it becomes very difficult to make decisions, and a smaller inner circle composed of the most critical members of the coalition will conduct coalition business. In an organization with dispersed power, the most powerful actor will be the individual who can manage the coalition.

There have been subsequent attempts to build on the ideas of Thompson, but they are scattered across multiple disciplines and do not coherently form a complete theory. However, many subsequent theories of organizations have been inspired by Thompson's work or at least have many commonalities with it. Contingency theory is built on the premise that there is no single organizational structure that is equally effective for all organizations, but the optimal structure varies according to contingency factors—such as size, strategy, uncertainty, or technology. In order to be effective, the organization should fit its structure to the contingency factors. Resource dependence theory focused on the interdependence and uncertainty among organizations and particularly the element of power in this relationship. Organizational design perspective focused on the characteristics of tasks (e.g., complexity, interdependence) and the matching structural characteristics. Institutional theory focused on the institutional environment and how legitimacy is created within an organizational field. Thompson's model has been extended by J. C. Spender and Eric H. Kessler to explain innovation process, where innovation is treated as a source of internally generated uncertainty. Thompson's typology of three technologies have been extended by Charles B. Stabell and Oystein D. Fjeldstad to argue that there are three corresponding value configuration models (the value chain, the value shop, and the value network) which will help us to understand the firm-level value-creation logic much better across industries and firms.

Importance
Later empirical studies have tested the 86 propositions in Thompson's book and found substantial support. The work of Andrew Van de Ven, Andre Delbecq, and Richard Koenig Jr. found that both
task uncertainty and task interdependence have an effect on the use of different coordination mechanisms in terms of both quantity and quality. A review of the empirical work on technology-structure relationship between 1965 and 1980 by Louis W. Fry showed that technology has a significant effect on structure and the effects of interdependence is one of the critical factors in this relationship. The work on organizational design based on Thompson's theory has helped practitioners to design more effective organizational structures. Furthermore, subsequent theories built on these propositions also provide support for Thompson’s arguments. Findings of the contingency theory show that both uncertainty and technology determine the optimal structure, while the findings of the resource dependence perspective show that organizations co-opt other organizations to reduce their dependency to the environment. Overall, there is strong evidence that uncertainty and interdependence from technology and the environment determine the structure of the organizations, which is the central argument in Thompson’s book.

Thompson’s model can be helpful to managers for designing effective organizational structures, decision making, and incentive systems. It is essential for the managers to realize that both internal technology and the inter-unit interdependence and the external dependence to the environment should be considered while designing organizations. If they are not considered during the design process, they should be expected to exert their influence in the organization over time, causing significant conflict and forcing later changes; therefore, understanding these relationships and designing organizations accordingly may save time and resources. Furthermore, studying and implementing the strategies to deal with reducing dependence and uncertainty will allow the managers to be more effective in helping their organizations achieve their goals.

Remzi Gözübüyük

See also Bounded Rationality and Satisficing (Behavioral Decision-Making Model); Contingency Theory; Institutional Theory; Organic and Mechanistic Forms; Organizational Structure and Design; Resource Dependence Theory; Value Chain

Further Readings


**Technology and Programmability**

Joan Woodward has had a significant and lasting impact on the study of organizations, conducting pioneering empirical research into the relationship between technology, organizational structure, and firm performance. Her framework for assessing technology and programmability achievements, particularly given the time and place, represents a significant and original contribution to our knowledge of organizations and forms an important part of the foundations of modern contingency theory. Woodward’s work was a springboard for much subsequent research. Her ideas have been widely debated, empirically tested and challenged, and still remain an important part of the foundation of organizational theory. Not everything that Woodward originally propounded back in the 1950s as part of the turn to the “technological imperative” in organizational sociology has stood the test of time. However, there is still much to be gained from a critical engagement with her work. This entry will discuss the central contributions of her work and reflect on the lasting impact of her ideas regarding technology and organization.

**Fundamentals**

Joan Woodward is best known for her book *Industrial Organization: Theory and Practice*. This
Technology and Programmability

volume marked an important turning point in the history of organizational theory, establishing the important links among technology, organizational structure, and business success. First published in 1965, it challenged classic scientific management principles and theories, revealing findings that represent a major contribution to the foundation of contingency theory. Contingency theory scholars moved organizational theory beyond the “one best way” view of scientific management and began to explore how organizational outcomes are contingent on various characteristics of the organization and its environment, in this case, the technology used in production.

Woodward’s groundbreaking field study was conducted while she was part of the Human Relations Research Unit at the South East Essex Technical College. The Human Relations Research Unit had been set up in 1953 with support from a number of national agencies, with the aim of enhancing the performance of industry and commerce in Great Britain through the application of social science. Through the field study, Woodward examined the relationship between technology and organizational structure using a sample of 100 small and medium manufacturers in South East Essex. The preliminary results of this research were first published by the British government’s Department of Scientific and Industrial Research in 1958 in a 40-page booklet. Although she is now best remembered for her 1965 book, this 1958 volume had already exerted a considerable influence on key U.S. scholars by the time *Industrial Organization: Theory and practice* appeared.

In her research, Woodward first investigated the organizational structure of the selected firms and proposed a new typology of production systems, locating the firms on an 11-point scale of production systems, according to the complexity of technology representing the degree to which the production system was controllable and predictable, what she referred to as “programmable.” She distinguished three main categories in ascending order of technological complexity: (a) unit and small batch production, (b) large batch and mass production, and (c) the most complex process production and continuous flow. These three categories were then subdivided into nine subcategories of production systems from least to most complex.

She then ranked firms’ degree of business success based on a range of different economic criteria, dividing the firms into three broad categories of success: above average, average, and below average success. She then analyzed whether firms’ success was correlated to common organizational characteristics. According to Woodward herself, the most important finding the research team revealed was that firms with similar organizational structure and other administrative characteristics could present substantial variations in outcomes; there was no one best way. Furthermore, they found that differences in technology and manufacturing techniques account for many differences in organizational structure.

A number of organizational characteristics varied significantly among the firms studied and were not independently predictive of economic success: communication forms, levels of authority and span of control, numbers of levels in the line of command, proportion of direct and indirect labor, labor costs, and the number and proportion of managers to the total workforce. In fact, the commercially successful firms were the ones that aligned function and form, since different technologies need appropriate organizational structures. Successful firms from a commercial standpoint were not the ones implicitly following abstract classic management theories but the ones that choose the organizational structure according to the logic of their production technology. Woodward showed that technology influences organizational behaviors and that there seemed to be a “particular form of organization” which was most appropriate to “each technical situation.”

Classic management theory did not therefore appear to be adequate as a practical guide to those responsible for the organization of industry. This observation—that successful manufacturing organizations did not always conform to the prescriptions offered by the management textbooks of the day but rather responded to the demands of their unique operative circumstances—became popularized through its role as a foundational assumption of contingency theory.

Importance

It is, of course, important to keep in mind that ideas that seem obvious today may have been remarkably radical when they were proposed. At the time her research was first released, Woodward was challenging the fundamental orthodoxy of the time: that “classical management theory” derived from Frederick
Winslow Taylor, Henri Fayol, or Mary Parker Follett did indeed offer a universal set of principles that would lead to a convergence of organizational structures and practices. According to Woodward, by applying these principles, scholars ought to find three characteristic configurations of authority relations: (a) line organization where authority flows directly from the chief executive to subordinate managers and onto employees in a traditional bureaucratic manner, (b) functional organization where individual employees were directed by a number of specialist supervisors, and (c) hybrid line-staff organization where a direct line of authority is retained by senior managers as employees are assigned to functionally specialized departments. Little advice was ever offered, however, by advocates of these respective organizational structures about how a manager should go about choosing which one would best guarantee their organization’s success. After first wrestling with the problem of defining success, the consternation felt by the research team was palpable when they reported that, of the 100 manufacturing firms studied, no relationship of any kind had been established between business success and what is generally regarded as sound organization structure.

Reading contemporary North American reviews of Industrial Organization: Theory and Practice, one is struck not by how perplexed many of the reviewers are to discover that a theoretical and inductive research enterprise could yield such profound and influential results. Some of the reviewers reacted quite negatively, feeling that Woodward’s research findings were undermining the underlying principles of classic management theory and regarding her work as an attack on traditional management education. More sympathetic reviewers, however, (including people of the stature of Charles Perrow in the American Sociological Review, Arthur Stinchcombe in the Journal of Business, and Terence Hopkins in the Administrative Science Quarterly) had the perspicacity to see her work as a diamond in the rough with an intrinsic value that shone through despite its flaws.

Looking back on Industrial Organization: Theory and Practice 5 years after its publication, Woodward noted in 1970 that “patient and detailed exploration of what really happens inside industrial firms was a prerequisite to the development of an organization theory comprehensive enough to provide managers with a reliable basis for their decisions and actions” (1970a, p. 234). Her principal achievement challenged the ideological basis of 20th-century management theory that made it, as she stated in her 1965 book, “impossible for managers to be detached and impersonal enough to be conscious of the nature of their own achievements” (p. 256). In this sense, her championing of an empirically based research program stands alongside her inspiration of the “technological turn” as a major aspect of her legacy.

It was not until the emergence of the Aston school that her work was to be subjected to its first major empirical test in the strategic contingencies theory of intraorganizational power. Here, Woodward’s observation that you could explain a firm’s success by the status and influence it afforded to its “critical function” (be it design, marketing, or production) is taken as a foundational assumption of a sophisticated model that links the power of a subunit with its centrality in the organization’s work flow.

Certainly Management and Technology and Industrial Organization: Theory and Practice are today remembered for their claims about the way in which technology appears to be an independent variable that predicts human behavior or organizational properties. However, the accusation of “technological determinism” has endured, with a number of writers considering her positions to be overly unidirectional and deterministic—that is, understanding the details of technical systems of production provides us with the key to unlock the secrets of the social organization of work. As an alternative perspective in considering Woodward’s continuing legacy, it is useful to remember the intellectual, economic, social, and theoretical milieu in which Woodward operated. Thus, the finding for which her research is best remembered—that the way a manufacturing firm is socially and technically organized depends on the nature of its production process—can be seen as a serendipitous by-product of an original objective to determine what makes an organization successful or not in terms of its structure. Consequently, her perceived technological determinism aside, Woodward provided a framework for understanding the interaction of the technical and social aspects of work that did not pretend that managers were benign and disinterested servants of everyone in the organization. Woodward’s now largely forgotten great insight was that whoever had ultimate control over the inception, design, and operation of new technical systems exerted a
great deal of subsequent influence over employees’ activities regardless of whether those employees were consulted about (or even participated in) the change process itself. This interest in technical change and its relationship to the social relations of work and organization can therefore be considered the most enduring aspect of Woodward’s work, and it remains a fruitful and critically important area of study in the organization and management field. It is an area that, despite the large existing literature, continues to attract the attention of a large group of scholars working from a diverse range of perspectives.

Woodward’s focus on technology and organization continues to have resonance today as the development of new technologies challenge current approaches to organizing. Whether the technologies are technologies of production or communication, Woodward’s work highlights the need to continually rethink assumptions about what constitutes the best way to organize and reminds us that the effectiveness of even well-proven theories of organization may change as technologies evolve. As technologies change, organizations must change with them to ensure continued success. Complacent firms that try to adopt new technologies without adjusting structures and management practices will find their performance decline.

Francesca Bria and Nelson Phillips

See also Bureaucratic Theory; Contingency Theory; Scientific Management; Strategic Contingencies Theory

Further Readings


TECHNOLOGY S-CURVE

The theory of the technology S-curve explains the improvement in the performance of a technology through the collective efforts of multiple actors over time within an industry or technological domain. The technology S-curve helps managers understand the complexities and contingencies associated with how to best manage the development and improving performance of a technology and when to transition from one technology to another. The remainder of this entry is structured to answer the following questions in-depth in order to help readers understand technology S-curve theory: What is a technology S-curve? What factors influence the shape of a technology S-curve? When should a firm switch to a new technology S-curve? These are all valid and important questions that those interested in the management of technology and innovation often ask when confronted with this concept.

Fundamentals

What Is a Technology S-Curve?

Before a discussion of what a technology S-curve is can begin, a particular point of common initial confusion by new scholars must be addressed. Specifically, there are two technology management related S-curves: technology S-curve (the focus of this entry) and the technology adoption S-curve (also known as technology adoption curve or technology adoption life cycle). These S-curves are very different in regard to their focus and subsequent insights offered. However, unfortunately, both are sometimes referred to simply as technology S-curves and, thus, a discerning manager or scholar must recognize and understand their distinctions before appropriate insights can be gleaned. The technology S-curve, which is elaborated in more detail below, is focused on technology performance improvement
and maturity as a function of consistent R & D (Research & Development) effort. The technology adoption S-curve is focused on market share capture via various adopter groups for a technological innovation.

What Factors Influence the Shape of a Technology S-Curve?

The key concepts associated with the technology S-curve are performance and effort. The technology S-curve displays the improvement of performance of a technology through the collective efforts of multiple actors (e.g., firms, individuals, institutes, universities, associations, etc.) over time within an industry or technological domain. Some research also suggests technology improvements can be firm dependent although the ever-increasing practice of open innovation suggests that the inclusion of diverse actors beyond firm boundaries will continue well into the future. The shape of the S-curve reflects the dynamics of the slow initial improvement of the technology as part of the uncertain fluid stage where the fundamentals of the technology are poorly understood. But as the technology diffuses to more actors and is better understood and improved upon, the extent and rate of technological improvements specific to the technology increases and, subsequently, performance increases, creating a significant rise in slope of the S-curve. Finally, maturity of the technology is reached when further performance improvements slow or cease to materialize due to actual or perceived physical constraints of the technology. Initial models of the technology S-curve suggested that technology performance improvement occurs over time, but more recent research has shown that R & D efforts are a better determinate of improved technological performance than time. Thus, older models of the technology S-curve will show time on the x-axis, while more recent models will reflect effort instead. It should also be noted that the term technology is contextually defined to include various technological domains, such as information technology, engineering, sciences, and so on, and can exist in differing forms, such as a product (e.g., pharmaceutical drug), process (e.g., biotechnology assay), component (e.g., silicon wafer), or system (e.g., smart phone) technologies.

As noted previously, the technology S-curve shape reflects technology performance that is a function of the extent of R & D effort made by multiple actors. However, performance and effort indicators are not universal but are technology specific. The performance and efforts to improve a smart phone clearly differ from the performance and improvement efforts of a biotechnology assay. Thus, a keen awareness of critical areas to focus effort for technological improvement and an understanding of market desired performance are crucial. In the following paragraphs, several examples in differing industries are offered for insights on what key indicators were identified to develop a technology S-curve and how valuable insights were gleaned.

Moore's law is an established theory in the information technology industry that reflects a technology S-curve specifically in the context of integrated circuits, which is a system technology. According to Moore's law, the continual improvements via R & D of key performance enhancing technologies that are embedded within the integrated circuit (identified as manufacturing, design, and chip size technologies) will continually improve performance (identified in the market as speed, reliability, and cost) until the physical constraints of these embedded technologies are reached. Each of these embedded technologies can also be exhibited through their own S-curve. Moore predicted in 1986 that the then-current pace of improvements in integrated circuit technologies would result in a doubling of transistors on a chip every 18 months. His prediction was reflective of the projected steepness of the S-curve slope. While some have argued that Moore’s law has become obsolete, the dynamics behind his predictions are clearly aligned with the technology S-curve theory and simply reflect that the maturity of the technology has likely neared.

When Should a Firm Switch to a New Technology S-Curve?

Up to this point, we have viewed technology S-curves as individual and independent curves that can be compared across the dimensions of performance and effort within the same technological or industrial context but do not necessarily influence one another. From this perspective, a new technology S-curve would be identified and followed when the prior technology reaches maturity. In a noncompetitive and/or noncannibalistic market, this tactic may be appropriate. However, the reality is that
new, discontinuous technologies can emerge making an existing technology obsolete before maturity is reached, resulting in what Joseph Schumpeter has referred to as *creative destruction*. This disruption is sometimes caused by new entrants into an industry, since large industry incumbents tend to focus on improvements of existing technologies—more comfortably seeking to extend existing S-curves by refining their current base of knowledge—rather than learning new technological areas, opening the door for an “attackers advantage.” However, incumbents can also thwart attackers with continued improvements on existing technologies. As a result, predicting the emergence of a new technology and its related S-curve and determining if and when to shift to the new technology is a significant and potentially costly challenge for firms.

New, discontinuous technologies fulfill a similar market need as an existing technology but are based upon an entirely new knowledge base and may involve a new system of components. Thus, incremental improvements on an existing technology do not prepare a firm for discontinuous technologies. Initially, this new technology may offer lower performance than the current technology in the market. But, as effort is expended on the new technology, the returns to performance can increase and may exceed prior technologies. The firm that hesitates to switch may be left behind competitors with the ability to stay on the front edge of the technological improvement and performance due to learning curve dynamics, negatively influencing the firm’s competitiveness in the market. Switching decisions are complex and based upon multiple factors such as (a) advantages the new technology offers to the firm, (b) the fit of the new technology with the firm’s existing capabilities, (c) the fit of the new technology with the firm’s strategic positioning in the market including complementary resources, (d) the fit of the technology as a component within the larger technological system, and (e) the expected rate of diffusion of the technology.

Clayton M. Christensen offers an example of this switching decision dynamic within the disk drive industry. International Business Machines Corporation (IBM) invented the first disk drive technology in 1956 involving multiple components, such as rotating disks, spindle, ferrite read/write-heads, actuator motor, electromagnets, and electronic circuitry with a real recording density (megabits per square inch) as the measure of product performance. A critical juncture in this industry was the switch of technologies from ferrite heads to thin-film technology. However, the predicted maturity of this ferrite component technology differed both among and within firms. Some firms began thin-film technology development in anticipation of the switch, sometimes at the expense of ferrite-head improvement efforts. However, in this case, there was no attacker or first-mover advantage for firms that switched to the new technology since the overarching disk drive system was not changed, only a component technology, and component technologies offered multiple avenues for improved performance of the technological system for firms since the system design remained unchanged.

However, when new technologies require a new system architecture or design where component improvements require changes in other components as part of the larger system, attackers advantage emerges. Christensen offers the example of disk drive size from 18 inches to 2.5 inches diameter requiring reconfiguration of the entire system of components and their relation to one another. These new technologies and their new design were often entered into the industry by new competitors rather than incumbents. And because these new architectural systems often involve different performance measures from other technologies on the market, they are sometimes dismissed as inferior by incumbents. Thus, understanding the dynamics of component versus architectural technologies, the capabilities and strategic position of the firm, and the related S-curve predictions enables better competitive technology decisions by firms.

**Importance**

The validity of the technology S-curve theory has been supported over time and across technological contexts beginning with empirical evidence in the information technologies of integrated circuits and disk drives to new empirical and anecdotal evidence in industries such as energy, software, agricultural chemistry, and cloud computing. This continued evidence of the technology S-curve theory has strengthened the premise of the theory as a valuable and powerful tool for technology managers seeking to understand the development of technologies and predicting their eventual maturity.
Recently, Melissa Schilling and Melissa Esmundo applied the technology S-curve to a very current topic: the energy industry. They developed S-curves for fossil fuels, such as coal, oil, and natural gas, as well as renewable energy sources, such as hydroelectric, geothermal, solar, wind, and biomass, to predict which of these technologies offers the greatest potential for performance per unit of effort. In their work, they identified cumulative R & D dollars across nations as the key indicator for technological improvement effort, reflecting global actors contributing to technology development, and kilowatt per dollar as the key indicator for market valued performance. Their S-curve findings suggest that although the largest amount of R & D dollars were spent on fossil fuels, wind and geothermal energy sources offer the greatest potential kilowatt-per-dollar performance per R & D dollar.

Managers seeking to understand and compete, utilizing the technology S-curve theory, must gain a clear understanding of the development and evolution of technologies from their initial, growth, and maturity phases and as well work with technologists to understand critical areas and valid measures of effort and performance, stay aware of discontinuous technologies that may emerge from within or beyond their industry, and understand the dynamics of component versus architectural designs in technological improvements—including when attackers advantage is most likely to exist.

With the ever-increasing technological advancements of today that either serve as a core foundation or as a significant facilitating or complementary technology that influences the competitive advantage of a firm, understanding the S-curve of these technologies can have a significant impact on the survival and profitability of firms.

Joanne L. Scillitoe

See also Architectural Innovation; Competitive Advantage; Innovation Diffusion; Open Innovation; Technological Discontinuities

Further Readings


Theory Development

Within the field of management and organizational studies, an author’s precise meaning of the term theory is often difficult to grasp, even for experienced readers. With the goal of informing the reading of this literature, this entry is divided into three sections. The first provides an overview of theory within the field of organizational and management scholarship, focusing on two broad topics: what is and isn’t considered theory and different kinds of theory. It then focuses on the development (including by way of graphical modeling) of one kind of theory—referred to as middle-range—characterized as answers to questions of, Why? The second section traces the evolutionary nature of different “stages” of theorizing and theory enhancement. The final section provides a practical template for readers who wish to assess the nature of a theory as well as to construct better management theory themselves. Throughout the entry, the term development is used in both a descriptive (how to) and a prescriptive (making something better) manner. The first treatment focuses on the building blocks of middle-range theorizing; the second focuses on the improvement of middle-range theories.
Fundamentals

What Is and Isn’t “Theory”?

In their classic 1995 article, Robert Sutton and Barry Staw specified “what theory is not.” Included in their list were references, data, variables, diagrams, and hypotheses. At the end of their treatise, the authors briefly addressed what theory is. Their depiction represents a fairly wide consensus within this field, and social science more generally:

Theory is the answer to queries of why. Theory is about the connections among phenomena, a story about why acts, events, structure, and thoughts occur. Theory emphasizes the nature of causal relationships, identifying what comes first as well as the timing of such events. (p. 378)

Some scholars consider theory as the answering of any question, while others focus on “process” questions pertaining to how something happened. In line with the view expressed by Sutton and Staw, the focus of this entry will be on questions of why, generally characterized as causal explanations. This naturally invites the follow-up question: What is and isn’t an explanation?

One way to address this question is by comparing explanation (Why is it? How does it come to be?) with description (What is it?)—two complementary forms of scholarship used widely in this field. While descriptions focus on “a single thing” (What is it?), explanations necessarily encompass “multiple things”—often signified as an $X \rightarrow Y$ relationship. This leads to a second distinction. While descriptions of $Y$ might use “arrows” to signify what things $Y$ is related to ($X$ is correlated with $Y$), it is customary and preferable to use arrows for causal explanations of $Y$ ($X$ is a cause of $Y$). Indeed, it has been argued that the “strength” of a particular theory depends on how well the causal mechanism implied by an arrow is specified. A third distinction involves the scope of an explanation: Whereas a description can apply to a single case (one manager, group, or organization), it is expected that an explanation applies to multiple cases—that is, it is expected that a theory is “broadly applicable.”

Different Kinds of Theory

Within this broad domain of theory-as-explanation, there are various kinds or types of theories. One of the most important distinctions is between general and middle-range theory. Although this distinction is rarely mentioned in organizational scholarship, it can help readers reconcile varied and seemingly inconsistent treatments of organizational theory. For example, calls for “new theory” typically refer to general theory, whereas admonitions to “improve theory” more often refer to middle-range theory. While, as their names suggest, these two types of theory vary in scope and breadth, they have other noteworthy differences.

General theories operate like paradigms—broad explanations that might help explain a variety of different outcomes. For example, “agency,” “need,” or “expectancy” theory might help explain why individuals make a variety of decisions. The promise of general theory is that if you look at a particular outcome-of-interest through this “lens,” your attention will focus on one possible explanation (cause). The paradigmatic quality of general theory is reflected in its pattern of usage. Specifically, general theories are intended to be applied, not systematically tested and improved—except to clarify boundary conditions (e.g., does agency theory operate the same way in different cultures?). Note that if everyone who applied a general theory did so with the intent of changing it, soon it would lose its utility as a common frame of reference.

Whereas general theories can be used to explain a variety of outcomes, middle-range theories are explanations of a particular outcome (Why $Y$?). In this way, middle-range theory is consistent with the goal of organizational leaders: increase or decrease specific kinds of performance or performance-related outcomes, such as organizational efficiency, product quality, group creativity, and employee satisfaction. If one thinks of general theories as “omnibus Xs” looking for particular Ys to explain, middle-range theories can be thought of as “particular Ys” looking for suitable explanations. As this comparison suggests, the Xs used to explain a particular Y are often inspired by relevant general theories. For example, $X_1$ might be inspired by agency theory, $X_2$ by need theory, and so forth. An additional feature of the best middle-range theories is that they specify the conditions under which they are likely to apply—the scope conditions. This characterization of middle-range theory can be summarized as, What causes what and why, and under what conditions. In the following sections, readers will notice that “and why” is a distinctive feature of strong theory and
“under what conditions” is the hallmark of useful (high utility) theory.

Middle-Range Theory Development

With the benefit of this brief overview of the distinctive domain of theory, this entry now turns the readers’ attention to the process of theory development. Inasmuch as general theories are not assembled piece by piece and, once formulated, their function is incompatible with an ongoing process of testing and improvement (development), this section is limited to middle-range theorizing—inspired, if you will, by relevant general theories. The bulk of what follows introduces a structured approach, referred to as “modeling-as-theorizing.” It can be used to guide the initial articulation of posited answers to Why Y? questions, as well as their subsequent enhancement by others. Following this discussion of middle-range theory modeling is an outline of the evolution traced by concept-focused scholarly conversations.

Everyday experience tells us humans that the quality of a product, whether created by our hands or our minds, depends on how well it was made. Aristotle famously set forth a dual standard for evaluating a body of knowledge: Is it complete? Is it systematic? The use of X → Y propositions, expressed as simple or complex graphical (box and arrow) models, offers a simple and universally understood medium for the long-term development of middle-range theory that becomes more and more complete and systematic. One of the benefits of using graphical models to both generate and communicate causal arguments is that they focus attention on the essential ingredients of middle-range theorizing: what causes what, and why, and under what conditions.

These conventions can also aid the evolution of thinking within scholarly conversations, seeking to explain outcomes requiring complex explanations, for example, turnover, job satisfaction, mergers, and acquisitions. Thus, adapting a familiar adage, within the realm of middle-range theorizing, “a ‘picture’ is worth at least a thousand words.”

To begin, imagine a simple theory: X and Y in individual square boxes, an arrow pointing from one to the other, and these three elements circumscribed by a larger rectangular box, signifying relevant boundary conditions. One of the nice features of graphical modeling is that it can be used to convey a simple or highly complex theory, and the meaning of boxes (concepts) and arrows (causal relationships) remains constant, regardless of scale and complexity. In addition, an understanding of the basic structure of causal modeling helps those interested in improving a particular proposition identify a suitable intervention strategy. In what follows, the building blocks of middle-range theorizing—boxes, arrows, and boundary conditions—are briefly described.

Boxes or Concepts. One might think of the boxes composing a middle-range-theory model as the nouns in a sentence, or, as the main characters in a play. Recalling our definition of middle-range theory (what causes what and why, and under what conditions), the boxes are the whats. The simplest middle-range theory contains two boxes (an X and a Y).

The more boxes included in a model the more complex the theoretical argument. While the addition of new elements doesn’t necessarily improve the quality of a theory, it is clear that within the social realm, models containing a single X are always incomplete explanations of Y. Thus, each box within—and the large rectangular box circumscribing—any size of causal model is a salient visual invitation to “think outside the box” (what’s missing?)

Experience has shown that the modeling-as-theorizing process works best when authors follow three key specifications for the selection and naming of boxes. First, they should be expressed as nouns or brief noun phrases (e.g., group composition, task interdependence, organizational size). Second, for theorizing intended for scholarly publication, it is best to use concepts (sometimes called constructs) utilized with the targeted body of literature, rather than everyday terminology—such as organizational reputation, rather than outsiders’ opinions. Third, every box must be capable of being operationalized as a variable (a measurable range, from high to low, or, even on and off) and functioning as a cause or an effect. Importantly, these specifications caution against the use of broad categories (environment, leadership, culture) from middle-range theorizing. In these cases, the addition of an adjective to these categories often allows them to be operationalized as variables and incorporated into testable propositions (e.g., perceived environmental uncertainty, charismatic leadership style, individualistic culture).
Arrows or Causal Relationships. Graphically, the answer to what causes what, and why is signified by arrows. Building on earlier analogies, arrows can be thought of as the verbs in a sentence or the plot of a play. There are basically three kinds of causal relationships utilized in middle-range theorizing: direct, mediated (indirect), and moderated. Direct causes are the easiest to describe. Regardless of the number of X-antecedents included in a model, each one with an arrow pointing directly at a Y-outcome is considered a direct cause. To clarify the causal mechanism signified by an arrow—the “and why” component of our definition—the relationship might be described in the text as, X causes Y, because . . . The extent to which an arrow signifies a specific causal mechanism, rather than simply a correlation, is a distinguishing characteristic of strong (not weak) theory. Completing this sentence is much easier when the selection of X-antecedents reflects an investigator’s interest in applying one or more relevant general theories. In these cases, the arrow in a proposition signifies a distinctive causal mechanism associated with a particular general theory (X causes Y, because [general theory mechanism]). Examples of such ties between concepts used as X-antecedents and related general theory mechanisms in this field include the following: in institutional theory, legitimacy (concept)—and isomorphism (mechanism); in social identity theory, organizational identification (concept)—and social identification (mechanism); in social justice theory, perceived fairness (concept)—and expectations of fairness (mechanism).

A mediated causal argument contains three boxes, connected by two arrows, signifying a “two-stage,” causal sequence. A simple analogy might help illustrate how a mediated cause works. Imagine three balls lined up in fairly close proximity. The first ball represents an X, the third ball represents a Y, and the middle ball operates as the mediator. In what’s called a “fully mediated” relationship, the effect of the first ball on the third ball goes entirely through the middle one. For example, it might be argued that the effect of leadership style on group performance is mediated by (goes through) the motivation level of group members. It is worth noting that when a mediator is introduced into an existing Why Y? proposition, the focus typically shifts from the existing X-antecedent to the Z-mediator, as the direct cause of Y.

The third type of relationship “looks different,” because the arrow of a moderator points to another arrow, not to a box. Using yet another analogy, if we think of the arrow in an X → Y proposition as representing an electrical current moving from X to Y, then a moderator can be thought of as a switch, controlling the current’s flow. This might be a simple on-off switch, a rheostat, or one that is capable of reversing the current’s polarity (+ or –). In statistics, Z-moderators are used to create interaction variables, combining in some specified manner the effects of an X-antecedent and a Z-mediator on a Y. Conflicting results from multiple empirical tests of an X → Y proposition, involving different samples of individuals or organizations (from different cultures, for example), often prompt further theorizing about possible moderating factors.

An important implication of this brief overview of the three kinds of relationships utilized in causal modeling is that, as a set, they delineate the logical possibilities for improving an existing Why-Y? explanation. That is, we can add X-antecedents (direct causes), Z-mediators (indirect causes), or Z-moderators (moderated causes). Inspiration for these enhancements comes from imagining key elements of a better, more complete explanation that have been overlooked. This process can be thought of as bringing what was previously outside (the rectangular box) into the model as new boxes and arrows. An important source of this information is the model’s contextual boundary conditions.

Contextual Boundaries. As noted earlier, a large rectangular box circumscribing a middle-range theory can be used to signify the theory’s boundary conditions. Inasmuch as all explanations must apply to more than a single condition, the utility of a particular X → Y argument is to a large extent based on the specification of its applicable conditions: when, where, and for who it does or does not apply. To be clear, failure to enumerate a theory’s contextual boundaries does not qualify it as a universal theory. Instead, this common oversight actually limits a theory’s value as a guide for both scholars interested in theory testing, and practitioners interested in theory application. The systematic assessment of a theory’s boundaries often extends over a long period of time. In the end, the goal is to produce “useful theory” containing an up-to-date “users guide,” describing suitable who, when, and where applications.
Evolution

Broadening the scope of our focus, from a discrete theory-development contribution to the evolution of a theory over time and across contributors, it is instructive to consider different “stages” of theorizing. Herein, stages is used loosely to connote different forms or types of middle-range theory development that are depicted, more or less, as a series of enhancements. (Note: One stage doesn’t necessarily lead to another, and as a set, the stages are not necessarily linear.) Equipped with this heuristic, readers of a particular theory-based literature within organizational scholarship might better understand the focus of current and past theorizing and recognize opportunities for further theory development.

The initial stage in this framework is technically speaking pre-theory, in that the introduction of a new concept focuses attention on a single what (though often enriched by description of its surrounding [proposed] conceptual and empirical context). This stage often entails debates about the concept’s meaning and proposed measures. These discussions often include efforts to logically distinguish the new concept from a network of related extant concepts (what it is similar to and how it differs from similar others). Subsequent uses of the concept (stages 2–4) are likely to prompt refinements in its initial introduction, possibly leading to the specification of multiple meanings, interpretations, or applications.

Once there is some agreement about what it is, a recently introduced concept might, in Stage 2, be combined with an existing concept to form a novel X → Y proposition. Unless the new concept is generally considered an outcome (e.g., employee turnover), its first appearance in middle-range theorizing is likely to be as an X-antecedent. Further, it will most likely be deliberately paired with what like-minded scholars view as a very important Y-outcome (e.g., organizational commitment, firm performance), forming a Why X? proposition (Why is X an important concept?). This supposition about the initial casting of a new concept as an X-antecedent reflects the following logical argument: Something is worth explaining (cast as a Y-outcome) if it is a proven explanation of something else, of greater perceived importance. Thus, a hallmark of Stage 2 propositions is the justification of a new concept as theoretically relevant—something whose utility in middle-range theorizing has been demonstrated. If and when a body of scholars agrees that a new concept is a significant direct cause of one or more important outcomes, the X → Y proposition in which it is embedded often becomes the subject of further theory development.

One option, referred to here as Stage 3, is for the X and the Y in a Stage 2 proposition to remain the same, while the possibility of “expanding the middle” by adding suitable mediators or moderators is explored. (Think of a Stage 2 proposition becoming a 3+ column model, with the X on the left and the Y on the right, and 1+ mediators and/or moderators in the middle.) When appropriate, the specification of a direct cause argument is enhanced by the addition of a mediated relationship—dividing it into a two-step causal sequence. In a similar manner, enhanced contextualization comes from the addition of one or more moderators. This is an important step in the evolution of Why Y? explanations in that it focuses attention on the important qualifiers in our definition of theory: (a) why and how exactly does X cause Y, and (b) under what conditions. Reinforcing a point made earlier, the need to add a mediator is more likely when the X-antecedent in a Stage 2 proposition does not explicitly invoke the causal mechanism of a specific general theory.

An even greater transformation of a Stage 2 proposition occurs when, in Stage 4, a “proven X” is recast as a “promising Y” and becomes the focus of a new Why Y? investigation. In other words, what was an X-antecedent in Stage 2 becomes a Y-outcome in Stage 4. What is referred to as the explanation stage of middle-range theorizing typically features “tall models,” depicting posited direct causes of the new Y. (Imagine a model with two columns: The column to the right consists of a single Y and the one to the left contains a vertical list of proposed Xs, each connected with an arrow to the Y.) Consistent with the objective of formulating “complete” explanations of Y, it is advisable to build Stage 4 models mostly using X-antecedents that are unrelated to each other. Said differently, it is important to distinguish Stage 4 models from multiple-X Stage 2 models, in which additional (presumably weaker) Xs are used to justify the merits of the favorite X, or, in which a cluster of related Xs are used to demonstrate their value (e.g., various types of personality). Recalling an early distinction, one way to ensure the selection of unrelated X-antecedents is to link each one to a different general theory.
Importance

The elements of the preceding discussion suggest four “levels of theoretical utility” for evaluating specific middle-range theories. First, building on an earlier distinction, when authors use arrows to merely signify a correlation between X and Y, the \( \text{X} \rightarrow \text{Y} \) proposition can be categorized as a non-theory. Second, when it seems reasonable to assume that X causes Y, but authors offer no specifics about how and why this occurs, the proposition is a weak theory. Third, propositions that signify a clearly specified causal argument (X causes Y, because . . . ) qualify as strong theory. Fourth, when the contextual conditions of a strong theory are delineated, it becomes a useful theory—in the sense that it can be confidently tested and applied.

Several points from this entry can be applied to enhance strength of theorizing. Theory is answering a specific question with an explanation—usually about what causes what and why. Scholars must take care not to substitute references, data, variables, diagrams, and hypotheses in place of rather than in support of underlying (theoretical) explanation. Often, general theories aid and inspire the process of explaining, while middle-range propositions provide precision and empirically verifiable clarity. Management scholars can make contributions “of” theory—by applying a theory downstream to particular contexts and phenomena; or scholars can make a contribution “to” theory—by applying empirical findings upstream to enhance or extend extant theoretical arguments. (Junior scholars will likely spend more time applying theories downstream.) Either way, graphical models of theory are a powerful method for enhancing lucidity, insight, and communicability throughout the theorizing process. By considering the evolutionary stages of theory, the theoretical arguments at the core of many scholarly conversations can be better understood and “grafted” into.

While we have not discussed how to select “what to explain” in this entry, it is equally crucial to explain the right things as it is to explain them well. Interesting theory is likely to be important to managers and theorists, alike. Important aspects of the causal what(s)-being-explained condition include novelty, an answer to the so what/who cares? question, impact, timing, and applicability to actual management situations—are managers seeking explanations for the individual, group, or organizational outcome my theory purports to provide? In the end, the goal of theory-based management scholarship is to enhance managers’ efforts to facilitate good outcomes and to minimize bad outcomes, by better understanding what causes what and why, and under what conditions.

In conclusion, Kurt Lewin’s dictum, “There is nothing quite so practical as a good theory,” nicely frames this brief overview of theory and theory development. Although unstated, Lewin’s praise of theory presumes a shared understanding of what theory is and isn’t and what kind of theory we’re talking about. Of greater significance, we can infer from this statement that only “good” theory has practical value—this is consistent with our everyday observations that “bad” theory is not only impractical but also often causes harm. Focusing on the formulation of good theory, the second part of this entry depicted a structured, cumulative theorizing process and set of principles that can over time yield more complete and systematic explanations of important management and organizational outcomes.

David A. Whetten and Zachariah J. Rodgers

See also Academic-Practitioner Collaboration and Knowledge Sharing; Action Research; Analytical and Sociological Paradigms; Appendix: Central Management Insights; Bad Theories; Engaged Scholarship Model; Evidence-Based Management; Multilevel Research; Organizational and Managerial Wisdom; Process Theories of Change; Theory of the Interesting

Further Readings


Theory of Constraints

The theory of constraints (TOC) is a managerial framework for continuous improvement developed by Eliyahu M. Goldratt. Part of the novelty of this managerial framework is that Goldratt presented his ideas in a 1984 novel, The Goal: A Process of Ongoing Improvement, rather than presenting his theory as a set of equations or in an academic paper. Using this narrative device, Goldratt and Jeff Cox (his coauthor) provided several examples of how TOC works in practice. The central premise of TOC is that operational performance of an organization or system is only as successful as its “weakest link,” a theme that Goldratt builds upon. All systems comprise a collection of interrelated and independent processes through which parts and the produce flow to create value. The weakest link is considered to be the largest constraint to the throughput of the system. Thus, in order to improve operational performance, the largest constraint posed by the weakest link must be addressed. Another key concept in TOC is the importance of considering variation when examining system performance. In his book The Goal, Goldratt illustrates the flaw of using average component performance to determine the performance of the system, particularly when there are interrelated components. TOC is a relevant topic for this encyclopedia because The Goal has become a mainstay and perhaps even classic in the pedagogy of teaching operations management to master of business administration, or MBA, students and, as a result, has become a part of the vernacular of many analysts and managers. The remainder of this entry is devoted to describing TOC in more detail and then assessing the impact of TOC.

Fundamentals

The theory of constraints proposes a holistic rather than local consideration of organizational performance—with profits being the ultimate metric of success. The primary measures of that performance are (a) throughput—the rate at which money is made from sales, (b) inventory—the costs associated with purchasing and holding items that will ultimately become products (or services) for sale, and (c) operating expenses—the costs associated with turning inventory into sales.

Once the goal of the organization has been articulated, the TOC indicates a set of five iterative focusing steps to identify and address the constraints (also known as “bottlenecks”) in the system in an effort to enhance organizational performance and achieve its goal. Throughput may be increased by focusing on the constraints and increasing the flow through the system, thereby increasing sales.

The five focusing steps are as follows:

1. **Identify the system constraint.** A constraint may be a physical limitation that restricts flow in the system (e.g., the maximum capacity of a critical piece of machinery), a human performance limitation (e.g., inadequately skilled or unmotivated workforce), or even a policy that impedes optimal performance (e.g., worker work-rest schedules that may limit utilization of some part of the system).

2. **Exploit the constraint.** Once the constraint has been identified, all efforts must be made to maximize throughput capacity at that particular bottleneck. This might include continuous operation or eliminating unnecessary work.

3. **Subordinate all other activities to the above decision.** In other words, this step requires that the entire operating system is tuned to the weakest link in order to reduce unnecessary inventory and operating expenses.

4. *Elevate the system’s constraint.* Once you have gotten the most out of the constraint in the second step and tuned the system to that constraint in the third step, implement significant improvements and/or changes to release the constraint so that it will no longer be the weakest link. At this point, another constraint will likely emerge.

5. *Repeat.* If a new constraint has emerged as a result of the efforts from the previous steps, identify the new weak link that constrains system throughput and work through the five focusing steps once again.

In conjunction with the five focusing steps of the overarching continuous improvement framework, the TOC also offers a series of “soft” tools referred to as the *logical thinking processes.* Taken together, these thinking processes provide managers an ability to diagnose why an organization or system may not be achieving its goals. The suite of logical thinking processes includes the following logic diagrams: concurrent reality tree, evaporating cloud, future reality tree, prerequisite tree, and transition tree.

The concurrent reality tree and the evaporating cloud provide analytic processes for problem identification—what to change? The evaporating cloud and future reality tree provide strategic processes for constructing solutions—what to change to? The prerequisite tree and the transition tree provide tactical processes for designing the implementation—how to cause the change to happen? The thinking processes also include a set of logic rules called the *categories of legitimate reservation.*

While this TOC has been specified in a particular manner and has been widely deployed, its underlying rationale is that of many iterative, continuous improvement frameworks and methods—with the goal of continuously and iteratively identifying limitations and waste so that they may be eliminated. Goldratt suggests that TOC holds up in a variety of domains and, in *The Goal,* he illustrates this both in a manufacturing setting, as well as in the protagonist’s personal life. Basically, the TOC may be applied when a system comprises a set of interrelated processes such that any one process (i.e., the constraint) may limit system performance.

Additionally, Goldratt noted that variance in subsystem performance must be considered when examining the performance of the entire system. For example, if a system comprises two serial subsystems, the mean system throughput is additive of the subsystems. TOC deals with this by subordinating the system to the constraining constraint or subsystem.

Other concepts related to TOC include what Goldratt has called *drum-buffer-rope* (DBR) scheduling. The drum refers to the steady beat of the system that sets the pace for throughput. In the TOC, this pace is dictated by the weakest link (or bottleneck) constraint. Buffer is an allowance to ensure a degree of protection against variability and uncertainty. This becomes particularly important in the second of the focusing steps when exploiting the constraint. A buffer (such as an inventory of work in progress before the constraint) helps ensure the constraint is never starved and always fully exploited. There are stock buffers, time buffers, and other types of buffers placed before and even after constraints. The rope is a reference to a scheduling system that pulls work through the system like a thread. The rope is dictated by the drum and the buffer and provides a mechanism for optimizing throughput. Often, the rope is realized as a communication process for monitoring and controlling workflow.

In relation to mathematical optimization, where there will be some objective function (e.g., profit maximization) subject to specific constraints (including resource constraints), the TOC focuses on the constraints as a mechanism of improving system or organizational performance. In some sense, TOC is comparable to dual problem for a constrained resource profit maximization optimization. Additionally, TOC has been compared and contrasted to other continuous quality improvement frameworks, namely, six sigma and lean thinking. Interestingly, all have five-step processes. However, whereas the constraint-focused TOC attempts to manage the constraints and improve throughput, the problem-focused six sigma attempts to reduce variation and provide uniform process output, and the flow-focused lean thinking attempts to remove waste and reduce flow time. Thus, each has similar goals and slightly different approaches.

**Importance**

Since the time of its original publication in 1984, *The Goal* has sold over 3 million copies. Additionally, in the subsequent decades since that original publication,
many more books and articles have been written that expand the concepts and illustrate applications of TOC. A recent literature review for the 12-year period from 1994 to 2006 has demonstrated a growth in the number of academic papers and dissertations on the subject of TOC, particularly the so-called thinking processes. This literature review notes gaps, as well as opportunities, in the literature that would be reflective of a growing body of knowledge.

The TOC may be used in any managerial application that requires a method for identifying opportunities for continuous improvement. For example, if a manager needs to determine how to increase sales, that manager could use the TOC to evaluate his company’s service function, supply chain, or manufacturing base to determine how to increase throughput, reduce inventory, and/or increase sales. In the 20th-anniversary third edition of *The Goal*, there are “case study interviews” that illustrate how some practitioners have embraced the TOC and have demonstrated process improvements, some transformational. There have been several studies that illustrate the potential benefits of applying TOC to actual organizational settings.

A 2005 review of the TOC, using a framework for classifying methodologies, found that TOC may be viewed as a complementary framework across the social, personal, and material dimensions. It further suggests that the TOC shares ontological and epistemological characteristics and assumptions of other existing management science methodologies (e.g., systems dynamics). On the other hand, there have been criticisms about the suboptimality that might result from TOC and the drum-buffer-rope scheduling. There are claims that TOC compares favorably to mathematical optimization techniques; there are also claims that TOC is inferior to mathematical optimization and produces suboptimal results.

Paul Szwed

See also Actor-Network Theory; Gantt Chart and PERT; *Kaizen* and Continuous Improvement; Process Consultation; Quality Circles; Quality Trilogy; Six Sigma; Systems Theory of Organizations; Total Quality Management

Further Readings


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**Theory of Cooperation and Competition**

All management involves creating and facilitating cooperation among the organization’s members while minimizing competitive and individualistic efforts. Since an organization is a set of interpersonal relationships structured to achieve established goals and cooperation is a joint effort to achieve mutual goals, cooperation is a necessary condition for organizations to exist and function. All management involves organizing people to work together (i.e., cooperate) in accomplishing goals, using available resources efficiently and effectively. In order to be an effective manager, therefore, it is helpful, perhaps necessary, to understand the nature of cooperation and social interdependence. This entry provides an overview of the theory of cooperation and competition.

**Fundamentals**

The roots of social interdependence theory lie in the early 1900s when Kurt Koffka (one of the founders of the Gestalt school of psychology) proposed that groups were dynamic wholes in which the interdependence among members could vary. In the 1920s, Kurt Lewin proposed that the essence of a group is the interdependence among members created by common goals and that interdependence results in the group being a “dynamic whole” so that a change in the state of any member or subgroup changes the
state of any other member or subgroup. In 1949, Morton Deutsch asserted there are two types of social interdependence: cooperative and competitive. Cooperation exists when individuals’ goal achievements are positively correlated; individuals perceive that they can reach their goals if and only if the others in the group also reach their goals. Thus, individuals seek outcomes that are beneficial to all those with whom they are cooperatively linked. Competition exists when individuals’ goal achievements are negatively correlated; each individual perceives that when one person achieves his or her goal, all others with whom he or she is competitively linked fail to achieve their goals. Thus, individuals seek an outcome that is personally beneficial but detrimental to all others in the situation. The absence of social interdependence results in individualistic efforts, which exist when individuals work by themselves to accomplish goals unrelated to the goals of others. Thus, individuals seek an outcome that is personally beneficial without concern for the outcomes of others.

Interaction Patterns

The basic premise of social interdependence theory is that the type of interdependence structured in a situation determines how individuals interact with each other which, in turn, determines outcomes. Positive interdependence tends to result in promotive interaction, negative interdependence tends to result in oppositional or contrient interaction, and no interdependence results in an absence of interaction. Promotive interaction occurs when members help and assist each other, exchange resources, give and receive feedback, challenge each other’s reasoning, and encourage increased effort. Two important aspects of promotive interaction are the appropriate use of individual and small group skills and group processing (reflecting on group efforts to describe what member actions were helpful and unhelpful in achieving the group’s goals and maintaining effective working relationships among members and make decisions about what actions to continue or change). Oppositional interaction occurs as individuals discourage and obstruct each other’s efforts to achieve. Individuals focus both on increasing their own success and on preventing anyone else from being more successful than they are. Competition tends to result in constructive consequences when it occurs within a broader cooperative context, clear and fair rules and criteria for winning are present, the task is appropriate, the task may be completed individually, competitors have an equal chance of winning, and winning is of low importance. No interaction exists when individuals work independently without any interaction or interchange with each other. Individuals focus only on increasing their own success and ignore as irrelevant the efforts of others. Each of these interaction patterns creates different outcomes.

Deutsch noted that depending on whether individuals promote or obstruct each other’s goal accomplishments, there is substitutability (i.e., the actions of one person substitute for the actions of another), cathexis (i.e., the investment of psychological energy in objects and events outside of oneself), and inducibility (i.e., openness to influence). Essentially, in cooperative situations, the actions of participants substitute for each other, participants build positive relationships with each other, and participants are open to being influenced by each other. In competitive situations, the actions of participants do not substitute for each other, participants generally develop negative relationships with each other, and participants refuse to be influenced by each other. When there is no interaction, there is no substitutability, cathexis, or inducibility. The relationship between the type of social interdependence and the interaction pattern it elicits is assumed to be bidirectional. Each may cause the other.

Outcomes

The investigation of cooperation and competition is one of the longest standing research traditions within social psychology. Since the late 1800s, over 1,200 research studies have been conducted on social interdependence. Since participants have varied widely, a wide variety of research tasks and measures of the dependent variables have been used, and since the research has been conducted by many different researchers with markedly different orientations, working in different settings and countries and in different decades, the overall body of research on cooperation and competition has considerable generalizability.

The numerous outcomes studied may be subsumed within three broad categories: (a) effort to achieve, (b) interpersonal relationships, and (c) psychological
health. Meta-analyses of all available studies found that cooperative efforts, compared with competitive and individualistic efforts, promoted considerably higher productivity, more liking among individuals, greater social support, greater psychological health, and higher self-esteem. These outcomes of cooperative efforts form a gestalt where they are likely to be found together.

**Application**

While most managers may intuitively understand that their job is to structure and facilitate cooperation among organizational members, while discouraging competitive and individualistic efforts, knowing social interdependence theory allows managers to structure cooperation consciously and deliberately, thus, increasing their effectiveness. They do so through five steps. The first is to structure strong positive goal interdependence and supplement it with other types of positive interdependence, such as role, resource, identity, and outcome interdependence. The second is to ensure each individual is accountable for doing their fair share of the work. The third is to ensure that team members promote each other’s efforts. The fourth is to help team members appropriately use small-group skills, such as leadership, decision making, trust building, communication, and conflict resolution skills. Finally, managers need to structure group processing sessions in which members discuss how well the team is performing and how its effectiveness may be improved. These five steps operationalize social interdependence theory into functioning teamwork.

*David W. Johnson and Roger T. Johnson*

**See also** Fairness Theory; Goal-Setting Theory; Group Development; Organizational Effectiveness; Path-Goal Theory of Leadership; Social Construction Theory; Trust; Virtual Teams

**Further Readings**


**Theory of Emotions**

Over the past two decades, there has been an explosion of interest in the role of emotions in management, based largely on the intuitive belief that many phenomena within the workplace are driven as much by emotional dynamics as they are by so-called rational processes. In spite of the great enthusiasm, and unlike many theories within management, there is no single theory for emotion in organizations—however, this is underdevelopment. Attempting to integrate theories imported and adapted from psychology, this entry is focused on those most relevant to the management domain, with citations for readers to explore further. The overarching concept of process models, described below, attempts to combine these theories into a unified framework.

**Fundamentals**

Emotions are adaptive responses to the demands of the environment. Social function theories argue that emotions evolved to help individuals solve the problems of group living—that is, aiding cooperation and navigating conflict. Using the metaphor of an alarm system, emotions direct our attention to the most pressing issues in our environment and provide action tendencies that allow us to solve those
pressing issues. Accordingly, *process models* emphasize that emotion is not a unitary phenomenon but an interrelated series of processes that unfold chronologically. Although common wisdom considers emotion to be chaotic and disorganized, the emotion process is orderly, carefully sequenced, and governed by empirical regularities. Integrating the various process models that have been proposed produces the set of steps below. All midrange theories within the area of emotions in management can be situated within this process model. Doing so provides guidance for how these midrange theories relate to each other and to a larger whole.

- A stimulus is an event or experience that sets the process in motion. This can be anything of relevance to the individual in their workplace. For example, a stimulus might be a colleague’s behavior at a meeting, an announcement of downsizing, or even the thermostat being turned too high.

- Emotional registration is the interpretation, however minimal, of this stimulus with respect to its implications for the self. Basic emotions theorists argue that we humans are hardwired to code events automatically in terms of their meaning for the self. The cognitive appraisal process is an ordered sequence of checklists that direct our attention soonest to the most pressing emotional challenges. The checklist includes positivity-negativity, novelty, certainty, control, and fairness. For example, the distinction between anger and guilt is a matter of who controls a negative event: another party, oneself, or nobody, respectively. Although there is heated debate about whether emotion precedes cognition, cognitive appraisal typically begins without deliberate thought. *Primary appraisal*—that is, the first item on the checklist of distinguishing positivity-negativity—occurs first and largely automatically, which leads to the finding that emotion can precede cognition.

- Emotional experience is the resulting subjective feelings and physiological experience that we typically consider “emotion.” *Affective events theory* was developed to distinguish emotional experience from emotion-driven attitudes, such as job satisfaction, as well as to emphasize chronologically that stimuli in work environments lead to emotional experiences.

*Circumplex models* portray emotional experience as a two-dimensional space with axes of positive-negative valence and high-low activation. This contrasts with *basic emotions theory*, which describes emotion as distinct categories, such as anger and fear. *Regulatory focus theory* argues that people can be motivated either to seek positive outcomes or to avoid negative outcomes, which indicates preferences for particular emotional experiences. Such preferences can differ not only across individuals, but also it can change over time. New work on *affective diversity* has theorized that management outcomes are influenced by the similarity in emotional experience among colleagues.

Management research is split between work examining consistent individual differences in emotional experience and work examining variation over time for the same individual.

- Emotional expression is the outward display of cues that can convey our internal states. Whereas *neurocultural theory* argues that emotional expressions directly convey our internal states unless we regulate them, more modern evolutionary theories, such as *behavioral ecology theory*, emphasize that emotional expressions attempt to influence others. The *emotions as social information model* provides an integration of this work within a social functional framework. Dialect theory details how emotional expressions differ across cultures, akin to dialects of a universal language.

- Postemotional responses, simultaneous with emotional expression, consist of attitudes, behaviors, and cognitions influenced by one’s emotional experience. This is the stage of the emotional process inspiring the greatest body of research in management—particularly around the finding that experiencing more positive emotion is associated with better job performance, as well as factors such as creativity, accurate analysis, and extra-role volunteer behaviors. Barbara L. Frederickson’s broaden-and-build model emphasizes the role of positive emotion in freeing individuals to explore their environment and forge new connections. Barry M. Staw and colleagues have argued the positive emotion-performance link results from three mechanisms separately and in tandem: improved motivation and perseverance, biased
Theory of Organizational Attractiveness

Organizational attractiveness is defined as the degree to which an individual perceives the organization to be a place to work or the general desirability an individual has to work for an organization. This area of research asks what attracts an individual to apply for a position at an organization or why does an

See also Affect Theory; Affective Events Theory; Emotional and Social Intelligence; Influence Tactics; Positive Organizational Scholarship; Social Construction Theory

Further Readings


Theory of Organizational Attractiveness

As an especially active area of management research, new theoretical perspectives on emotion are continually being developed and refined. These are typically midrange theories that benefit from being situated within the larger process framework—toward the goal of a unified theory of emotion in management. Such a model could be useful in helping to integrate together the various components of management theories that address emotional dynamics yet have been examined largely in the absence of each other. These areas include stress and burnout, counterproductive behavior, motivation, decision making, and many other topics of pressing concern to managers.

Hillary Anger Elfenbein

performance ratings from others, and the ability to receive greater cooperation from others. Affect-as-information theory emphasizes how people are guided by their emotional states to reach mood-consistent attitudes, even in domains that are irrelevant to the original emotional state.

Joseph P. Forgas’s affect infusion model details under what circumstances to expect greater influence of emotion on subsequent cognition.

• Emotion recognition, in which observers interpret a target person’s emotional expressions, however minimally, is itself a stimulus that feeds into the observer’s own chronological set of steps in the emotion process. Theories of emotional contagion emphasize that individuals can “catch” each other’s emotions and feel the same way. Theories of emotional linkage emphasize the more nuanced influences that one person’s emotion can have on another person, for example, when a supervisor’s anger strikes fear in a subordinate.

• Emotion regulation can deliberately bring control to emotional processes—which occur automatically—by many distinct forms that act on each stage of the process. For example, stimulus selection involves avoiding negative stimuli and seeking out positive ones. Reappraisal involves changing how one registers a situation, and suppression involves changing the experience itself. Theory on emotional labor and its consequences emphasizes the role of regulation in social influence, and particularly emphasizes the different outcomes of reappraisal versus suppression.

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individual apply for a position at an organization. This research provides insight to managers of what variables influence an individual’s perceptions of an organization and how these perceptions influence an individual’s intention to apply for a job, pursue the job, and willingness to accept the job. Research in organizational attractiveness can be used by managers to enhance the strategies of recruitment. This entry first presents theoretical frameworks used in researching organizational attractiveness. Next the variables are examined, along with the research methods used in studying organizational attraction. The entry closes with implications for management practice.

**Fundamentals**

Research in organizational attractiveness has a long history. The roots of this field of inquiry can be traced to recruitment research. While research in organizational attractiveness is interrelated with recruitment, it is distinctively different than research on recruitment. First, research on recruitment focuses on the various processes an organization uses to recruit employees. Recruitment research is from the perspective of the organization. On the other hand, research in organizational attractiveness focuses on an individual and how this individual’s perceptions of the organization influence the individual to seek a job with the organization. Recruitment is a means to attract a prospective candidate to an organization, but it is not what attracts the individual. In examining what attracts individuals to an organization, researchers have identified a number of factors that can be used in the recruitment process or other functions of human resource management (e.g., inducements, compensation) to increase the number of job applicants or even influence the characteristics of the individual who applies for the job. These factors are viewed from the perspective of the individual candidate and not the organization. In examining recruitment, it is assumed that organizational characteristics influence job attitude and behaviors of organizational members; while research in attractiveness assumes that organization, job or task, and individual characteristics affect the applicant’s perceptions and ultimate attractiveness to the organization.

Research in organizational attractiveness further assumes that an individual selects and remains in an organization by choice. Job candidates use a satisficing decision-making process rather than a maximizing decision-making process. This decision model states that due to limited time, limited resources, and incomplete and/or inaccurate information, individuals, when making a decision, do not seek to maximize their outcomes but rather select that first solution that satisfies a minimum set of criteria in regards to that decision. One criterion that will be used in the employment decision process would be how attractive an organization is to the individual. A final assumption is that different kinds of people are attracted to different kinds of organizations. It becomes vital to understand how individual characteristics influence perceptions of the organization and ultimately the choice to join and remain with the organization.

**Theoretical Frameworks**

Four basic frameworks have been used to explore organizational attractiveness. The primary framework that has been used is the *interactional perspective* from psychology. Complementary explanations have also been provided through *theory of reason action*, *signaling theory*, and *social identity theory*.

**Interactional perspective** has its roots in interactional psychology and examines individual behavior as a result of the complex multivariable and multidirectional interaction between the individual and the organization. The basic propositions of interactional psychology state that actual behavior is a function of a continuous process of multidirectional interaction or feedback between the individual and the situation encountered. The individual is an intentional, active agent in this interaction process, being both changed by situations and changing situations. Cognitive, affective, and motivational factors and individual ability are essential determiners of behavior. The psychological meaning of situations for the individual and the behavior potential of situations for the individual are essential determiners of behavior. In applying the interactional perspective to research in organizational attractiveness, researchers focus on explaining the differences between organizations by studying the attributes of people. These attributes include personality characteristics, such as self-esteem, type A personality, and need for achievement, and the interaction with organizational characteristics, including reward systems, centralization, size, and geographical location. This research has been extended to include similarity-attraction effect.
in which individuals will be more attracted to organizations whose values are similar to their values and complementary-attraction in which people will be more attracted to organizations that are more likely to provide them with maximum need gratification. The interactional perspective further suggests different kinds of people are attracted to different types of organizations.

Theory of reasoned action argues that a person’s intentions predict behavior, and these intentions are driven by the beliefs and attitudes of the individual. This theory has three basic components—behavior intention, attitude, and subjective norm. It is the combination of attitude and subjective norm that leads to behavioral intention (e.g., to apply for a job). The attitude of the individual is based on the individual’s perception or value of applying for the job. Subjective norm involves how others would view this action if taken. Thus, the behavioral intention is influenced by both of these factors; however, these factors do not necessarily have equal weight in influencing intention. Research in organizational attractiveness that is based on this perspective examines how attitudes influence behavior intentions.

Signaling theory examines how to reduce the information asymmetry that exists between organizations and its various stakeholders. While this information asymmetry exists, stakeholders’ ability to make good decisions regarding the organization is hindered. To reduce this asymmetry, organizations send signals, or messages, to its various stakeholders. These signals are then interpreted by the intended recipient as to the organization’s intentions and actions. It is through the process of signaling that information asymmetry, which exists between an individual and organization, is reduced. One set of signals that organizations send is to prospective job candidates. Researchers in organization attractiveness examine how the prospective job candidates interpret these signals provided by organizations to form an opinion about the organization’s intentions and actions.

Social identity theory states that individuals belong to a number of groups (e.g., school, religious, job), and these individuals not only identify with these groups but also use these groups to classify others. Social identification is a perception of belonging to the group. The perception stems from distinctiveness of the group and the salience of outgroups and leads to activities that are congruent with the values and norms of the group. Combining this perspective with the theory of reasoned action and signaling theory, scholars can draw the link that the group that the individual identifies with provides the subjective norms in evaluating the message (signal) that the organization sends to prospective applicants. Researchers in this area examine the affect that group identification has on the attractiveness of the organization.

Methodology

Over 60 articles which have organizational attractiveness as their dependent variable and were published in peer review journals and published between 2000 and 2011 were identified using Ebsco Host and ProQuest databases. The focus on this section is to illuminate the reader on the operationalization of organizational attractiveness, categories of independent variables, subjects, research methods, and statistical analyses used in researching organizational attractiveness.

Dependent variable of organizational attractiveness has been measured by a series of questions based on a Likert-type scale. Daniel Turban and Thomas Keon asked respondents the extent that they

A. would exert a great deal of effort to work for this company;
B. would be interested in pursuing their application with the company;
C. would like to work for the company;
D. would accept a job offer;
E. were no longer interested in the company (reverse score).

Burke and Deszca asked the following:

A. How attracted would you be to this organization?
B. How satisfied would you be in this organization?
C. How successful would you be in this organization?
D. How likely would you take a job in this organization?

Other studies asked similar questions regarding how respondents perceived the attractiveness of the organization as a place to work.

Independent variables used in research of organizational attractiveness can be divided into four basic categories. The first category is individual
characteristics, including Type A and Type B personality type, cultural differences, ability to select job as defined by educational level, Myer Brigs Type indicator, and individual difference traits on exchange, communalism, equity sensitivity and uncertainty avoidance, and various demographic variables. The next category of independent variables can be classified as organizational characteristics. These characteristics included geographic dispersion, size, and age; organizational structural variables, such as decentralization, teams, reward systems, and so on; corporate social responsibility; and images and personality types of organizations. The final set is job and/or task characteristics. Subjects used were various groups of job seekers. These groups would include undergraduate and graduate students representing various disciplines and countries, high school students, and adults. Multimethods and tools of statistical analysis have been used. One method includes manipulation of organizational descriptive scenarios accompanied by surveys. Instead of manipulating descriptive scenarios, other studies used a survey to collect perceptions of organizations. Statistical analysis included ANOVA/MANOVA regression analysis and factor analysis.

Importance

Researchers have found consistent evidence that organizational characteristics, individual characteristics, and job or task characteristics do influence an individual’s perception of an organization, which does ultimately impact the individuals desire to work for that organization. Since individuals are attracted to organizations that match their individual characteristics, human resource managers can capitalize on this information by being mindful of the image and message presented in recruitment advertisements and brochures. For example, “employment at will” clauses have a negative impact on organizational attractiveness, while discussion of performance standards and innovation have a positive impact on applicants.

Besides recruitment advertisements, managers must also strategically consider the message that is communicated to the general market. These messages have a secondary benefit of attracting applicants. For example, neutral to positive images of social responsibility increased attractiveness among job applicants.

The message that is developed needs to be consistent with the attributes of potential applicants that the organization wishes to attract. Examination of this research would assist managers in strategically auditing and composing the messages that are sent to applicants and the general marketplace. The theory coupled with the practical application indicates that organizational attractiveness has importance not only to researchers but also to practitioners.

Joann Krauss Williams

See also Attraction-Selection-Attrition Model; Big-Five Personality Dimensions; Bounded Rationality and Satisficing (Behavioral Decision-Making Model); Human Resource Management Strategies; Job Characteristics Theory; Sensemaking; Theory of Reasoned Action

Further Readings


The theory of reasoned action (TRA) as developed by Martin Fishbein and Icek Ajzen provides a means to understand the drivers of human behavior. It states that behavioral intentions are the most proximal and reliable predictors of whether a person will engage in a specific volitional act. Behavioral intent is influenced by one's attitude toward the specific act that is being contemplated and subjective norms, the social pressure to perform the act. The TRA is arguably the most widely used theory of its kind. It is used extensively in the literatures of marketing, business management, social psychology, and health care. In a recent search of the ProQuest database, it generated a list of nearly 8,000 research articles that referenced or used the theory. When searching for TRA and its extension, the theory of planned behavior, it generated a list of over 14,000 research articles. In the marketing literature, it is used to understand the influence of consumer attitudes toward products on buying decisions and to test how to influence attitudes and subsequent buying decisions that can be affected by marketing efforts. It is used extensively in the health care industry to study how patient attitudes influence decisions to use medication, use screening for various types of cancer, and use of disease prevention measures. In the management literature, it is used to study worker attitudes toward cooperation, motivated behaviors, safety, and other relevant management issues. This entry will explain the overall model and its component parts. Boundary conditions for use of the model, theories that are related to the TRA, and the importance of the theory to business are also discussed.

Fundamentals
The TRA is a very compact model of human behavior. It consists of attitude toward the act, subjective norms, behavioral intent, and the target behavior. Attitude toward the act is one’s subjective evaluation of the desirability, or undesirability, of performing a specific action. It considers the consequences to the actor of performing the act and whether these consequences are favorable to the actor or unfavorable. Subjective norms represent the social pressure to engage in performing or not performing the act. The actor considers what others who are respected or important to them would do in the same situation. It considers peer pressure to conform. Behavioral intent is influenced by subjective norms and attitude toward the act and is the most proximal determinant of behavior according to the TRA. It represents the actor’s intention to perform or not perform a specific act.

Attitude Toward the Act
Attitude toward the act involves three different categories of potential responses to the target person, object, or idea. These categories are cognitive, conative, and affective. A cognitive response is representative of the person’s thoughts or ideas about the attitude object. Cognitive responses are categorized as verbal and nonverbal. A verbal response is demonstrated by beliefs about the attitude object. For instance, a student may believe that a particular faculty member is interesting and worthwhile to choose as an instructor or that a given class will be beneficial to learning relevant skills to use in his or her career. A nonverbal response is observable and attitude is inferred. If a student comes to a classroom on time and prepared to work, it is likely that she or he has a favorable attitude toward the class and/or the instructor. Affective responses are relative to one’s feelings about a particular attitude object. If a student admires a professor and appreciates her approach to teaching, the student can be said to “feel good” about taking a class with that professor. This would infer a favorable attitude about the class and/or the instructor. Conative responses have to do with what the person actually does. These are behavioral tendencies and actions toward the attitude object. If the person says that he is eager to attend the next lecture, it may be inferred that he has a positive attitude about attending class. This would be a verbal response. The nonverbal conative indicators could be the person reading the material for the class and doing extra credit work or choosing to do research projects for the class. These would imply a positive attitude about the class.
**Subjective Norms**

These are a function of a person’s beliefs regarding what she or he feels others who are important to them would do in the specific context under consideration or if the referent others would actually engage in the behavior under consideration. Referent others may be coworkers, peers, parents, friends, professional associates, or other social referents whose opinion may be relevant in the specific context involved. The relevant referent group will change with the context and the behavior under consideration. A decision regarding whether to go bowling with a group of friends will likely not be influenced by coworkers, but it will be influenced with the social group of friends. Conversely, a decision to hand in a white paper on time to support committee work at one’s job will be likely to be influenced by coworkers’ opinions and behavior but not by one’s parents. These are referred to as normative beliefs.

In addition to normative beliefs, subjective norms involve motivation to comply. If most of the relevant referent group that is important to the person would perform the behavior in question, there is motivation to comply. This results in social pressure to perform the act. Conversely, if the referent group would not perform the act, there is motivation to comply with restraining from the behavior.

**Behavioral Intent**

This is a key distinguishing characteristic of the TRA that sets it apart from other behavioral theories. Behavioral intent mediates attitude and subjective norm influences on behavior. All other influences on behavior affect behavioral intent through their impact on attitudes and subjective norms. The theory states that behavioral intent is the most proximal determinant of behavior. It is a measure of the person’s decision or intention to perform a specific act in a given context. The strength of behavioral intention is also a measure of how hard the person will try to actually perform the behavior. If behavioral intent is a large value, the person will exert significant effort to accomplish the behavior.

**Boundary Conditions**

While the theory has predictive value across numerous situations and contexts, there are some conditions that need to be observed to ensure correct application of the theory. The TRA is intended for use in situations where the behavior under consideration is volitional. That is, the person who will be performing the behavior has the skill, ability, and independence necessary to perform the behavior. For situations that do not meet these conditions, there is an extension of the theory called the theory of planned behavior (TPB). The TPB added perceived behavioral control to capture self-efficacy and other control beliefs regarding influences on one’s actions that are essentially out of one’s direct control.

To have the maximum predictive capability, the principle of compatibility must be followed. It states that when applying the model attitude, the subjective norms, behavioral intent, and behavior all need to be consistent in terms of time, target, context, and action. For example, to apply this principle, researchers could predict one’s likely action of buying a car by looking at the decision to buy a specific car from a specific dealer, on a specific day, at a specific time. The more general the measures are and the less consistent the antecedents to the behavior are in terms of time, target, context, and action, the lower the predictive value of the model.

**Other Related Theories**

Two other theories are commonly used in the same or similar contexts as the TRA. These are social cognitive learning theory (SCLT) and the health belief model (HBM). The SCLT includes self-efficacy, outcome expectations, goals, and social structural factors as antecedents to behavior. The health belief model includes susceptibility, severity, benefit, barrier, and cues to action as antecedents to behavior. All three models include assessment of favorability of outcomes in some form. The concepts of self-efficacy and social structural factors of the SCLT correspond to perceived behavioral control in the extended version of the TRA, the theory of planned behavior, and subjective norms in the TRA respectively. The concepts of susceptibility, severity, and barrier in the health belief model relate to perceived behavioral control on the theory of planned behavior. The concept of benefit in the health belief model is related to the attitude component of the TRA.

**Importance**

The TRA and its extension theory of planned behavior are by far the most commonly used behavioral theories in the business literature today. As noted in the introduction, searching the major databases
generates thousands of hits. The marketing field uses it extensively to predict consumer behavior and to understand how to influence consumer attitudes in order to increase demand for products and services. Research in the management literature has used it to understand employee motivation and other relevant behavioral issues.

The theory is robust and reliable. There have been numerous meta-analyses of research using the theory, and they consistently return large effect sizes for the variables demonstrating the predictive validity and power of the theory. For example, in a meta-analysis conducted in 1988 studying results of research using the TRA, the authors found that the attitude + subjective norms correlation with behavioral intention was 0.66 and the behavioral intention to behavior correlation was 0.53 across 87 studies. In another meta-analysis conducted in 2001 using 96 independent studies, behavioral intent was correlated 0.51 with behavior. Interestingly, in the same meta-analysis, the effective difference between the predictive value of the TRA and theory of planned behavior was significant, but small.

In sum, the TRA, and its extension, the theory of planned behavior, or TPB, have been shown to have very good predictive power in applications involving attempts to understand the drivers of behavior. The lessons learned have been used to formulate programs aimed at changing employee attitudes about work safety, increasing favorable attitudes and motivation in work settings, and changing consumer attitudes and behavior as it relates to purchasing decisions, among others. It has stood the test of time and has consistently remained the most often used behavioral model in the management literature since shortly after its inception.

Francis Jeffries

See also Equity Theory; Expectancy Theory; Goal-Setting Theory; Job Characteristics Theory; Social Cognitive Theory

Further Readings


THEORY OF SELF-ESTEEM

Self-esteem involves an individual’s own evaluation of his or her abilities and subsequent feelings of competence and worthiness stemming from those evaluations. William James, considered by many to be the grandfather of self-esteem, defined the construct simply as, “What we back ourselves to be and do.” Self-esteem is a complex construct and is considered one element of an overall self-concept, with other connected and related elements such as self-efficacy and self-identity also being central to one’s self-concept beliefs. At present, there is not an overall encompassing theory of self-esteem, as much debate exists as to its importance and causality in both the fields of clinical and applied psychology. Although self-esteem is a fairly frequently studied construct in the field of psychology and to a lesser degree in the field of management, its relevance and importance is a matter of some debate. Self-esteem has been found in some studies to be weakly to moderately positively related to work-relevant variables such as satisfaction and performance, but the causal nature of these relationships has not been supported. Therefore, while individuals with high self-esteem tend to have higher life satisfaction, for example, it has been argued that individuals may be deriving their levels of self-esteem from satisfactory lives, rather than the high self-esteem itself leading to high levels of life satisfaction. The following sections explore the theoretical foundation, measurement, development, and importance of self-esteem.

**Fundamentals**

The origins of self-esteem can be traced back over a hundred years to two classic psychologists: William James and Charles Cooley. James (1842–1910)
believed that self-esteem was a reflection of how adequate an individual felt he or she was in areas that he or she viewed as important. This deceptively simple explanation actually reflects the complexity of the self-esteem construct, as it suggests that self-esteem is not simply about one’s feelings of competence—it is rather about our feelings of competence only in the areas that matter to us personally. Cooley (1864–1929) first spoke of self-esteem in his description of what he called the “looking glass self,” which stated that it is others’ opinions of us that were of central importance to our development. These viewpoints, when taken together, comprise the underlying core constructs of self-esteem. In short, self-esteem appears to be based on whether people feel competent to face the obstacles in life, and to be healthy, these assessments must be based in reality. In terms of development over the life span, young children tend to have universally high levels of self-esteem, and these levels begin to change differentially as they get older. Both the ideas of James and Cooley combine in the idea of a symbolic interactionist perspective, which states that we humans develop our self-esteem over time through our interactions with other people. If we perceive these interactions with others as being positive, we develop higher regard for ourselves.

Self-esteem is a complex construct, representing both self-efficacy (an individual’s belief that he or she is competent to accomplish something) as well as self-respect (belief that he or she is worthy and deserving of respect, love, admiration, etc.). Self-determination theory (SDT) also provides a useful mechanism to understand the underpinnings of self-esteem. This theory states that all individuals are born with an innate desire to experience and master their surroundings and that self-esteem is achieved when the basic needs of life (defined by SDT as relatedness, competence, and autonomy) are all in balance. Self-esteem is rooted in one’s internal feelings about their competence as well as their worthiness. SDT postulates that there may be two different types of self-esteem to consider: (a) contingent self-esteem, which is comparative and based on criteria defined in the external world (how you believe you compare with others on externally defined measures of success); and (b) true self-esteem, which is argued to be the healthiest and most important kind, defined as one’s sense of self as worthy, based not on what one has accomplished but rather as a given, stable belief.

Rosenberg’s Self-Esteem Scale is the classic method for assessing one’s self-esteem levels. This measure consists of 10 items scored on a Likert scale. Rosenberg believed that substantial social structural experiences, such as race and ethnicity, education, and family experiences, create strong social forces that help to shape one’s self-esteem over a lifetime.

Self-esteem has been conceptualized on three levels: global self-esteem (also known as generalized self-esteem), state self-esteem, and domain-specific self-esteem. Global, or generalized, self-esteem is the most frequently studied level, and it can be best thought of as trait-based self-esteem, or one’s overall evaluation and judgment about him or herself. Global self-esteem operates much like other personality variables, developing early in life and remaining relatively stable over time and situations. State self-esteem, in contrast, involves an individual’s judgment of competence at a particular point in time, usually in reaction to a specific event, and is more temporary in nature than global self-esteem. Finally, domain-specific self-esteem involves one’s assessment of his or her competence toward a particular subject, rather than a more universal assessment of worth.

Much debate exists as to whether self-esteem can be taught, or whether clinical intervention occupationally-relevant training may successfully increase self-esteem levels. The conflict among researchers about the malleability of self-esteem may lie in the lack of clarity about which level or domain of self-esteem is being investigated. Global self-esteem is not easily modified, as it is relatively stable across one’s life span. State self-esteem, by definition, can be more easily manipulated, as could domain-specific self-esteem, because of their more temporary nature. However, skepticism exists in the literature regarding the value of such interventions, as they are not likely to have substantial or lasting impact on the dependent variables often associated with high levels of global self-esteem.

Clinical psychologists have developed interventions designed to increase self-esteem. It has been postulated that there are six “pillars” for nurturing self-esteem: (a) living consciously, (b) self-acceptance, (c) self-responsibility, (d) self-assertiveness, (e) living purposefully, and (f) personal integrity. However, efforts to increase self-esteem, using external methods, such as training or counseling, are considered
questionable. The more universal value of increasing self-esteem through such methods, even if it is possible, is also questioned.

How much self-esteem is optimal? It appears that too little or too much self-esteem can have less than desirable results. Researchers have examined whether extremely high levels of self-esteem can be dangerous or detrimental to healthy human functioning. If levels of self-esteem are not rooted in reality, they may lead to delusions about competence or ability. These delusions may cause individuals to persist in the face of extreme challenges or failures, past the point where such behavior is wise. Failures may then result in the individual with inflated self-esteem to blame others for their lack of success, rather than assuming necessary personal responsibility. Individuals with extremely low levels of self-esteem, in contrast, may limit their efforts and not take advantage of opportunities at all, believing they are neither competent nor worthy enough to make much of them.

Self-esteem is one component of the larger concept of self-concept. Positive self-concept, also called core self-evaluations by Timothy Judge and colleagues, is composed of self-esteem, generalized self-efficacy, locus of control, and emotional stability. These four components, when combined, have been shown to yield a positive relationship to job satisfaction, work motivation, and job performance. Self-esteem is similar in nature to the construct of self-efficacy, but they differ in fundamentally important ways. Whereas self-esteem is one's overall assessment of value as a person, assessments of self-efficacy focus more on one's belief that he or she can be successful. These also differ from the other two components of core self-evaluations. Internal locus of control is the belief that one has control over a range of factors in life (and seems arguably similar to self-determination theory’s idea of “true self-esteem”). Finally, emotional stability is one’s level of confidence and security.

The lack of a universally accepted theory of self-esteem, as well as conflicting research about its causality, has resulted in questions about the relevance of the construct to applied workplace psychology. While some researchers and practitioners remain hopeful that interventions and training may increase levels of self-esteem (and consequently, work satisfaction and performance), there is not strong research support for this notion.

**Importance**

Self-esteem has been found through research to be related to a number of subjective constructs, such as positive affectivity, well-being, and life satisfaction. It is the best predictor of life satisfaction than any other known construct (with relationships ranging from 0.3 to 0.5), including such factors as marital status and health. Self-esteem is also positively related to self-confidence and positive self-belief, initiative, and happiness, and it is negatively related to anxiety and depression, as well as drug and alcohol use. However, the question of whether those who engage in negative behaviors do so because of low self-esteem, or, whether low self-esteem causes such detrimental behavior is a matter of empirical debate.

The relationships between global self-esteem and performance are weak to moderate at best, with some researchers refuting that self-esteem has any positive impact on achievement, performance, or leadership whatsoever. It seems that self-esteem is related to one’s positive self-beliefs, but these positive self-beliefs do not appear to result in substantially stronger levels of management-related outcomes, such as job performance. Other researchers have argued that the strength of the relationships between self-esteem and performance are similar to those found with other stable individual differences, such as personality traits. Self-esteem, when considered on a global level, is a broad trait, and these researchers argue that it is not realistic that a broad trait would strongly predict more domain-specific behaviors, such as academic or job performance.

Without definitive evidence about causality, the importance or necessity of interventions or training designed to increase self-esteem is also in question. A key question of interest for management practitioners has been whether it is a beneficial use of resources to try to improve employees’ self-esteem, and whether such an investment of time and energy may result in subsequent improvements in performance.

There has not been extensive research as to the importance of self-esteem to career development. Based on initial research, it appears that having positive early career experiences can generate positive self-esteem and having low self-esteem may limit one’s opportunities by restricting one’s view of what is possible, causing an individual to not act upon what he or she may be interested in pursuing. Once
again, research in this area has determined that the relationship between career development and self-esteem is bidirectional.

Most recently, research has explored the concept of organization-based self-esteem (OBSE), or an employee’s assessment of her worth and competence as a part of a specific organization. OBSE appears to stem from an interaction of the employee’s disposition and the work environment itself. High levels of OBSE are positively linked to job satisfaction, organizational commitment, job performance, and organizational citizenship behaviors, beyond what can be predicted by generalized self-esteem. Research suggests that management should emphasize organic environmental structures, increased job complexity, and management and leadership practices that encourage participation and self-direction to increase employee OBSE.

Megan W. Gerhardt

See also Organizationally-Based Self-Esteem; Self-Concept and the Theory of Self; Self-Determination Theory; Social Cognitive Theory

Further Readings


THEORY OF THE INTERESTING

Sociologically speaking, Murray Davis considered that what is interesting to an audience (experts or laypeople) is something that stands out in their attention in contrast to their normal life. It constitutes an attack on some (not all) of their everyday assumptions about their ongoing activities. Analogously, an interesting theory is one that stands out for an audience by attacking some (not all) of the taken-for-granted propositions that make up the conceptual structure of their daily lives. Psychologically speaking, interest is an emotion that stimulates curiosity and fosters exploration for its own sake. It encourages growth in knowledge and competence.

The term interesting is important in management circles because it is used often by academic journal editors who wish to stimulate the production of novel arguments and novel research questions in articles in their journals. Their expectation is that such articles will be much more influential and much more generative of other research than non-interesting papers no matter how sound they are. The editors almost always base their arguments on Davis’s sociological work, although Davis’s theory of the interesting has not been developed very much. This entry first summarizes Davis’s approach to the interesting and then summarizes contemporary psychological theorizing about what is interesting. Although this is not intentional, the approaches are somewhat complementary.

Fundamentals

Davis’s Sociological Approach to the Interesting

Davis argued that interesting ideas motivate intellectual life much more than true ideas do, in part because they generate incomplete gestalts in
people's minds and thus are dynamic. Truth, in contrast, though the final goal of knowledge, is static. Davis also contrasted what is interesting from what is obvious (does not challenge any assumptions) and from what is absurd (too strong a challenge to assumptions).

Davis's particular focus was on characteristics of interesting ideas and propositions. He originally described interesting propositions as articulating a phenomenological presumption about some aspect of the world and then denying it in the name of a more profound insight. Davis considered interesting ideas to have several characteristics: They are novel, often including dialectic properties. They are easily elaborated to apply to new topics, shifting what was on the periphery of awareness to the center. They are reorganizational; they create and interrelate categories in new ways (e.g., separate what was coupled and couple what was separated). They are reflexive, applying their theses to themselves. They are ambiguous, allowing multiple, sometimes contradictory, meanings. They are sociable for the group that holds them; they establish a social base that conveys developments of original ideas to current and potential members thus reproducing the ideas. Finally, they are transient, since they alter the background against which they first appeared interesting.

**Psychological Approach to the Interesting**

Psychologists' research on interest is derived from a focus on the importance of cognitive appraisals, the presumption that emotions arise from people's evaluations of events rather than from objective features of the events. Thus interest, like other emotions, is caused by how people appraise what is happening in a particular situation. Further, because people experience events differently, they will often have different emotions in response to what appears to be the same situation.

Interest is considered to foster intrinsic motivation and to be fundamental to motivated learning. By fostering intrinsic motivation, interest increases the likelihood that people will develop knowledge, skills, and experience.

For example, there is evidence that when they are interested, students spend more time on learning tasks, study more, read more, remember more of what they read, and consequently get better grades in classes. This type of outcome appears to happen at least in part because interest stimulates deeper levels of processing of the meanings of textual material. Further, when people are faced with a boring task, they often attempt to make it more interesting. Thus, interest is likely a prime motivator for persistence and long-term engagement in tasks.

While interest is often associated primarily with the positive, this is not always the case. People might experience negative emotions even in the midst of interested engagement, for example, when they feel frustrated while trying to solve a particularly difficult problem.

What makes something interesting? More precisely, what types of appraisals cause interest? It appears that interest comes from two appraisals. The first appraisal is an evaluation of an event's novelty and related complexity, that is, evaluation of the event as new, unexpected, complex, mysterious, or obscure. The second appraisal is an event's comprehensibility, which refers to people believing that they have the skills, knowledge, and resources to deal with such new and complex events. Interest differs from confusion, in that confusing things stem from appraisals of high novelty but low comprehensibility.

**The Complementarity of Sociological and Psychological Approaches**

In some ways, the sociological and psychological approaches to interest complement and reinforce each other. The sociological approach emphasizes the types of characteristics that challenge the assumptions in which thought and practice are grounded. The psychological approach emphasizes that interest—and thus such challenges—have emotional components; what is going on in successful challenges is a stimulation of intrinsic motivation. The sociological approach does not consider characteristics of the audience in very much depth. The psychological approach emphasizes characteristics of the audience, discussing how audience members' appraisals of ideas as both novel and comprehensible affect whether they consider something as interesting. It may be that the perception of incomprehensibility is one reason that audiences consider some ideas as absurd. Both the sociological and psychological approaches emphasize that the outcomes of the experience of something interesting are likely to include desires to learn and explore in more depth. The psychological approach emphasizes these
outcomes for individuals, while the sociological approach suggests how interesting ideas may have considerable impacts on scholarly thinking over extended groups and time periods.

Managers (and many other people) can learn from this theory about why being interesting is so crucial in terms of fostering attention and learning. They can also learn how to use appropriate novelty in conjunction with comprehensibility to create interest. This includes challenging some, though not all, assumptions even while fostering people’s sense that they have the abilities to deal with the novelty appropriately.

Jean M. Bartunek

See also Achievement Motivation Theory; Role Theory; Social Cognitive Theory; Theory Development; Theory of Emotions

Further Readings


**THEORY OF TRANSFER OF TRAINING**

Transfer of training is the extent to which knowledge and skill acquired by trainees in a training setting are generalized, maintained, and adapted in a job setting. In organizational contexts, positive transfer of training is generally regarded as the paramount concern of training efforts—but it has proven to be a formidable challenge. Indeed, there is a widely recognized “transfer problem” whereby researchers and practitioners consistently conclude that the return on many training investments is low and organizational investments in training are too often wasted due to poor transfer. This is of particular concern in today’s rapidly changing business climate, where organizational success often depends on the speed with which people can learn and transfer new ideas and information. The theory’s central management insight is that learning and transfer are fundamentally different phenomena and learning is necessary, but not sufficient, for transfer to occur. To achieve transfer, training designers and trainees must actively pursue those training elements and activities known to foster generalization, maintenance, and adaptation of learned skills and knowledge. This entry synthesizes the most important advances in our understanding of transfer outcomes, highlights transfer antecedents most supported by empirical evidence, and identifies implications for management action.

**Fundamentals**

Within the domain of transfer of training, three recent conceptual advances are of particular importance. The first of these is overt recognition of the multidimensional nature of transfer outcomes and greater precision in describing those different dimensions. The second involves an expanded view of the antecedents of transfer beyond the design of learning events to include factors in the person, training, and work climate. The third directly acknowledges the importance of the type of training content on transfer outcomes.

**Transfer Outcomes**

Many traditional definitions stop at defining transfer as the application of learned skills to the workplace. *Application* is a very general term, however, and definitions that dimensionalize transfer more specifically as generalization, maintenance, and adaptability are preferred. Generalization involves more than merely mimicking trained responses to events that occurred in training. It requires trainees to exhibit new behaviors on the job in response to different settings, people, and situations from those
trained. Maintenance focuses on the changes that occur in the form or level of skills or behaviors exhibited in the transfer setting as a function of time elapsed from the completion of the training program. Adaptability reflects the reality that, for many jobs today, trained individuals must not only deal with routine situations and issues but must also adapt to novel or nonroutine situational demands. The most critical point is that positive transfer is more than a function of original learning in a training experience. For transfer to have occurred, learned behavior must be generalized to the job context, maintained over a period of time, and be adapted to the particular work climate of interest.

As alluded to above, even within each dimension, there are levels or distinctions. For example, with respect to generalization, it is useful to think in terms of transfer distance. To illustrate, learning to drive a car and then finding oneself in a truck would be a situation that would demand generalization, but of a relatively short distance. On the other hand, learning principles of organizational change in a management development seminar and then attempting to practice behaviors stemming from those principles over time as head of a merger and acquisition team would represent much greater generalization distance. Depending on the type of transfer outcomes desired, closing the transfer “gap” can involve greater or smaller distances. It is important to have some degree of clarity about the nature of the transfer of interest before designing and evaluating training interventions.

Transfer Antecedents

Transfer of training has long been recognized as a complex challenge and was among the first issues addressed by early industrial psychologists. However, until fairly recently, the majority of efforts to improve transfer have focused solely on the design and delivery of the learning event. An important expansion in our understanding is that it is not just the training intervention itself but a system of factors in the person, training, and organization that ultimately influence transfer of training to job performance. Transfer can only be completely understood and influenced by examining the entire system of influences.

Considerable progress has been made in discovering the antecedents to transfer. Conventional wisdom is that three categories of factors will most impact transfer outcomes: (a) training design, (b) trainee characteristics, and (c) work environment factors. Training design factors include the incorporation of learning principles, such as stimulus variability, active practice, and overlearning. Trainee characteristics consist of factors, such as ability, skill, motivation, and personality. Work environment factors include transfer climate and social support from supervisors and peers, as well as the opportunities to perform learned behaviors on the job.

Transfer and Type of Training

Although this was curiously neglected for many years, transfer researchers and training practitioners now more explicitly acknowledge that the type of skill being trained can impact transfer outcomes. One influential conceptualization of potential training content distinguishes between “closed” and “open” skills. Closed skills are those where trainees are trained to respond in one particular way on the job according to a set of rules—implemented in a precise fashion. For example, an auto mechanic changing turn lights on a car has a prescribed process and time to complete this task. On the other end of the scale are highly variable open skills—where there is not one single correct way to act but rather freedom to perform. With open skills, the objective is generally to learn principles and not solely discrete steps.

For example, a manager who is trying to motivate staff members cannot look up a “cookbook” of steps to take. A manager could, however, use motivational principles to accomplish the objective. The evolution of many military jobs, from what were once primarily physical roles with closed-skill requirements to now more cognitive open-skill demands, means that not only are the skills more difficult to train but also that tasks requiring high-level cognitive components are subject to greater and more rapid decay than are simpler motor skills.

The central point is that the linkage between a transfer antecedent and outcome may well vary depending on the nature of the training content. For example, the positive influence of a climate variable, such as peer support, may differ in its relationship to transfer depending on whether the skill being trained is an open or closed skill.

Importance

Notwithstanding, the consensus among scholars is that the traditional yield from organizational training has been disappointing and the transfer problem
remains acute. Left to chance, the likelihood that significant transfer will occur from most learning initiatives is truly very small. The good news, however, is that the development and evaluation of active transfer interventions is still in its infancy and research evidence has grown significantly in the last two decades. To conclude that transfer is resistant to intervention is based on the assumption that interventions have regularly been designed and implemented and yet failed to yield transfer—but that is not the case. Although a number of exceptions exist, the reality is that transfer has generally not been actively pursued or managed with planned interventions. When it has been, the results are encouraging.

For example, there is emerging evidence that interventions focused on heightening trainee self-efficacy and readiness can improve ultimate transfer. Similarly, new training designs that focus on identifying existing knowledge frames, random practice, and error diagnosis are showing great promise. Further, post-training interventions that help trainees envision their use of the training, predict and manage relapses, and set transfer goals have demonstrated transfer gains. The most successful transfer-inducing interventions will be those based on the accumulating evidence of what affects transfer in organizational contexts.

For those managers faced with the challenge of improving transfer in organizations, the emerging research suggests that there is ample reason to believe that they can improve transfer but probably not in the ways training has often been designed and delivered. The most important lessons are to think of multiple domains of transfer intervention—not just training design—and to go beyond the classroom (e.g., trainee selection and pretraining program framing, supervisor support, post-training visioning, and goal setting) in seeking to enhance transfer. Explicitly articulating training objectives, involving managers and peers in the training process and linking transfer outcomes with traditional organizational reward systems, are the most promising strategies for improved transfer in today’s organizations.

Timothy T. Baldwin

See also Action Learning; Learning Organization; Management (Education) as Practice; Organizational and Managerial Wisdom; Organizational Learning; Transfer of Technology

Further Readings

Theory X and Theory Y

Douglas McGregor’s landmark book, The Human Side of Enterprise, advanced one of the most important theories in the history of management thought. According to McGregor, a manager’s basic assumptive world, or cosmology, influences the managerial practices employed, which in turn shape the attitudes, work behavior, and performance of subordinates. After elucidating the fundamental (and pessimistic) assumptions managers tended to hold regarding human behavior in organizations, McGregor called on managers to engage in self-reflection and to consider alternative sets of assumptions. In the final analysis, McGregor hoped that increased self-awareness might prompt attitudinal and behavioral changes among managers. This entry first describes McGregor’s theory x and theory y; next, the importance of McGregor’s theorizing is discussed; and the final section delineates implications for practice.

Fundamentals

In its briefest form, McGregor’s theorizing reflects the following six ideas. First, managers make
assumptions about human behavior in organizations, even if they are unaware of doing so. Second, two broad categories of managerial assumptions can be identified: a pessimistic view (which McGregor labeled theory x) and a more optimistic view (theory y). Third, there are three primary dimensions pertinent to these assumptions, namely, whether people are seen as (a) inherently lazy versus industrious, (b) possessing a limited versus substantial capacity for useful contributions, and (c) being untrustworthy and requiring external control versus being responsible and capable of self-direction and self-control. McGregor also noted that people differ in their levels of ambition, willingness to accept responsibility, and desire for security, but the first three dimensions are of central importance. Fourth, differences in managerial assumptions result in corresponding patterns of managerial behaviors (such as close supervision and limited delegation of authority versus more general supervision and broad delegation). Fifth, enacted managerial practices influence employee motivation and work behavior. Thus, whereas opportunities for intrinsic satisfaction may spur employee interest and motivation, a distrustful style of management will likely produce employee disengagement. Sixth, because managers are typically unaware of the self-fulfilling nature of their assumptive worlds, there is often a misperception of cause and effect. The manager holding theory x beliefs may unwittingly engineer a low level of employee motivation. Completing the self-reinforcing cycle, upon observing low levels of employee engagement and motivation, the manager feels vindicated that his or her low expectations were warranted. Conversely, the manager who believes that employees are generally trustworthy, capable of contributing, and desirous of growth will facilitate such outcomes.

Questioning widely held and, at the time, conventional (theory x) assumptions about human behavior in organizations, McGregor outlined a new role for managers: Rather than commanding and controlling subordinates, managers should assist them in reaching their full potential. Clearly, McGregor was one of the first advocates of what is now referred to as the positive psychology movement. With good management practices, he argued, the potential for human achievement is vast, albeit largely untapped.

**Importance**

McGregor, a seminal figure in the field of management, was among the earliest humanistic psychologists whose theorizing developed in response to the perceived limitations of both scientific management and the human relations movement. McGregor himself was inspired by Abraham Maslow’s prior work on the natural desire for psychological growth and self-esteem. Indicative of the impact of McGregor’s work, John Miner in 2003 reviewed 73 established organizational behavior theories and found that theory x and theory y was tied for second place in terms of recognition and in 33rd place with respect to importance. By the time of the 25th year reprinting of *The Human Side of Enterprise* in 1985, it had become a classic with the dust jacket reading like a who’s who in management. Accolades from Peter Drucker, Warren Bennis, and other luminaries used descriptors such as “most powerful” and “profound.” A particularly eloquent and insightful commentary was subsequently provided by William L. Gardner and John R. Schermerhorn in their 2004 article in *Organizational Dynamics*:

Douglas McGregor’s message endures like a timeless melody, well worth listening to over and over again. . . . His respect for innate human capacities—talent, willingness to accept responsibility, creativity, and capacity for personal growth is well evidenced by many practices in our best-run organizations . . . self-directed work teams, employee involvement groups, job enrichment . . . [and these practices reflect] the essence of Theory Y assumptions McGregor espoused almost a half-century ago. (p. 270)

Further evidence of the impact of McGregor’s work comes from an examination of the classic management texts that have been explicitly grounded in the prescriptions of theory y: Robert Blake and Jane Mouton’s *Managerial Grid*, Edward Lawler’s *High Involvement Management* and *The Ultimate Advantage*, and Chris Argyris’s *Management and Organizational Development: The Path from XA to YB*. (Argyris proposed that organizations needed to shift from the pattern of behaviors associated with theory x—pattern a—to a pattern associated with theory y—pattern b.) McGregor has also been credited with contributing to the zeitgeist that fostered Frederick
Herzberg’s motivator-hygiene theory and Rensis Likert’s systems 1 through 4. McGregor’s influence is also evident in leadership theories that emphasize the nature of the relationship between leaders and followers, including authentic leadership, ethical leadership, servant leadership, and transformational leadership.

A Paucity of Validity Evidence

There have been very few direct tests of McGregor’s theory X and theory Y. McGregor himself conducted no research related to his formulations, nor did he attempt to make his variables operational in any kind of measurement procedures. McGregor did, though, identify management practices that he thought were consonant with theory Y assumptions, such as participative leadership, delegation, job enlargement, and performance appraisals. For example, in his book Leadership and Motivation, McGregor devoted two chapters to the Scanlon plan, and other chapters suggested other types of management initiatives. Consequently—and unfortunately—tests of the efficacy of these management practices were often conflated with an assessment of the validity of McGregor’s theorizing. Instead, a test of the substantive validity of McGregor’s theorizing should begin by viewing theory X and theory Y as reflecting fundamental individual differences in attitudes, which lead to variations in managerial behaviors and performance results. This distinction points to an issue that has seemingly eluded management scholars and researchers, to this day—namely, that theory X and theory Y pertain to individual differences in assumptions about people at work—not the extent to which specific recommended management practices are enacted.

There are two primary explanations for why there has been so little research that directly tests McGregor’s theorizing. First, a direct test of theory X and theory Y is a difficult undertaking. The requisite data include managerial assumptions and behaviors, along with individual and work-unit level indicators of work behavior and performance. The central research question might be framed as follows: Do work groups led by managers with theory Y assumptions demonstrate higher levels of employee engagement (motivation, commitment, and creativity) and higher levels of individual and work-unit performance, as compared to groups led by theory X managers? Such a test would entail obtaining multilevel data (on managers, teams, and subordinates) and include a measure of performance that is comparable across groups. It would also entail examining data from intact (natural) work groups where differences in managerial attitudes and behaviors result from organic individual differences.

A second obstacle to testing McGregor’s theory X and theory Y has the absence of a validated and established measure of managerial X and Y attitudes. Over a period of 40 years, about a dozen attempts have been made to measure managerial X and Y assumptions, but most efforts have provided no construct validity evidence. Frequently, items have been assembled and published in textbooks for students to use in conducting a self-assessment. A few studies have reported limited psychometric data, such as reliability coefficients, but until recently, no research has been conducted to develop a construct valid measure of managerial theory X and Y attitudes and behaviors. It is, therefore, not surprising that McGregor’s theorizing has largely gone untested, given that the focal constructs have essentially gone unmeasured. In recent years, a few studies have been conducted by Richard Kopelman and his colleagues that focus on the development and validation of measures of managerial X and Y assumptions and behaviors—see recommended readings.

To date, the most comprehensive direct test of McGregor’s theorizing was conducted by Byron Finan in a study published in 1973. He collected attitudinal and self-perception data from managers and their subordinates along with individual performance data. Managers’ attitudes and behaviors were unrelated to either subordinate satisfaction or individual performance. Performance could not be assessed at the work group level due to outputs being incomparable. These results may have discouraged follow-up research. However, in a just completed, but as yet unpublished study (by Richard Kopelman and associates), managerial attitudes and behaviors were assessed along with individual and group-level performance data. Associations between managerial X and Y behaviors and individual- and group-level performance were significant, and the effect sizes were medium and large, respectively. As anticipated, managerial behaviors were more strongly associated with performance than were managerial X and Y attitudes.
Practical Implications

Several substantive questions might be researched given the recent development of construct valid measures of the focal variables in theory x and theory y. There are also implications for practice that flow from theory x and theory y.

Coaching and development. McGregor asserted that managerial attitudes reflect deep-seated (and possibly unconscious) beliefs. This may partially explain why brief workshops which attempt to “train” managers to adopt a more theory y perspective have not been particularly successful. A more modest, yet realistic, aim may be to provide diagnostic information to managers, so they might privately access and reflect on it. This information may yield heightened self-awareness regarding core attitudes and assumptions about managing people at work. Along these lines, research might examine the efficacy of direct and indirect methods of management development via theory x and theory y diagnostic data.

New management paradigm. There has also been general agreement among both academics and practitioners that a new social-psychological contract has been emerging—one that emphasizes new employer and employee responsibilities. Employers are now expected to provide training, educational, and skill development opportunities, involve employees in decision making, and foster challenging and stimulating work opportunities; for their part, employees are now expected to take initiative, participate in organizational decision making, and ultimately be responsible for developing their own careers. From this perspective, the new employment paradigm assumes a theory y view with respect to what employees are willing and able to contribute to the organization, with corresponding employer responsibilities.

Boundary conditions. There are boundary conditions that moderate the efficacy of theory y managerial assumptions. Organizational climate is one such boundary condition. A manager with theory y inclinations may be less successful in a command-and-control type of environment—that is, organizations with mechanistic structures and control-oriented cultures. At the other extreme, theory y may be difficult to enact in environments characterized by continuous, turbulent exogenous changes, and by powerful external complexities requiring interorganizational, global, virtual teams. The optimal set of circumstances for a theory y mind-set and approach to management would be where there are stable managerial-subordinate relationships among defined participants, where capabilities and trust can develop along with shared goals and norms, and where self-managed teams can flourish with managers serving more as coaches than as bosses.

Boundary conditions, of course, apply to all theories, serving to specify the realms of applicability. McGregor recognized that there are boundary conditions for theory y. In his words, “under proper conditions,” there is the potential for “unimaginable resources of creative human energy” available to managers within organizational settings.

Richard E. Kopelman and David J. Prottas

See also Authentic Leadership; Needs Hierarchy; Organizational Development; Positive Organizational Scholarship

Further Readings


Total quality management (TQM) has been one of the most widespread management approaches for improving products and/or services and processes for achieving higher customer satisfaction and higher competitiveness of organizations during the last 25 years. Even though quality management approaches have been recognized and utilized by industry since the 1930s, the “arrival of TQM” in the last part of the 1980s opened a new era in the quality movement. However, during the first 10 years of the new millennium, the term total quality management, or TQM, seems to have lost its attractiveness in the industrialized parts of the world, and instead, new terms such as business excellence, organizational excellence, six sigma, and lean seem to have taken over its position even though the contents of these new terms can be understood within the framework of TQM. Parallel with these tendencies, scholars observe that the “TQM wave” is hitting eastern European countries, as well as newly emerging industrial countries in Asia. In those countries, numerous dynamic activities exist for learning, disseminating, promoting, and implementing TQM. The next section of this entry reviews definitions, scope, and core principles of TQM. After that, the evolutional aspect is reviewed, and the entry ends up with a discussion of the importance and limitation of TQM, including some TQM implementation issues.

**Fundamentals**

A large number of books, articles, and scientific journals cover the subject of TQM, but there are very few books and articles published before 1990 that use this term. The first book with the title Total Quality Management was published in 1989 by John Oakland, and the definition of TQM is formulated as follows:

TQM is quality in all functional areas. . . . TQM is an approach to improving the effectiveness and flexibility of businesses as a whole. It is essentially a way of organizing and involving the whole organization; every department, every activity, every single person at every level. For an organization to be truly effective, each part of it must work properly together, recognizing that every person and every activity affects, and in turn is affected by other. (pp. 14–15)

When reviewing various definitions of TQM, it can be said that TQM is a management philosophy with a vision aiming at building a corporate culture characterized by increased customer satisfaction through continual improvements in which all employees actively participate. To achieve the TQM vision is not a quick fix. The company’s management has year by year to set up business and image goals, which when achieved will give a satisfactory balance between customer satisfaction and the various stakeholders’ satisfaction. Stakeholders are here defined as employees, suppliers, business partners, society, and owners.

Drawn from various definitions, the key principles of TQM can be summarized as the following: (a) a strong management commitment and leadership; (b) focus on the customers and the employees; (c) customer driven continuous improvements; (d) everybody’s participation; (e) focus on facts (processes and measurements); (f) focus on training, learning, and education; (g) building partnership with suppliers, customers, and society; (h) building a quality culture.

The implication of these eight key principles is that in order to build a quality organization, there must be a strong leadership commitment to provide necessary training and education for employees so that they can be empowered and be involved in continuous improvement processes. When carrying out continuous improvements, the objective should be to increase customer satisfaction, and the improvement methodology should be based on quantifiable and reliable facts rather than assumptions or anecdotes. An organizational wide approach for
improving quality is only possible when there are trustworthy partnerships between suppliers, customers, and other stakeholders. Building a quality culture is assumed to be a result of practicing the first seven key principles.

**Evolution**

The birth of modern quality control has its origin in the time of mass production and specifically during the 1930s with the industrial application of statistical control charts suggested by Walter A. Shewhart from Bell Laboratories. Shewhart’s presentation of control charts into industry and his publication of the book *Economic Control of Manufactured Product* in 1931 are generally viewed as marking the birth of modern quality control.

The Second World War provided rich opportunities for the application of control charts in various military industries, and by application of the control charts, the United States was able to produce large quantities of military supplies at a relatively low cost. During the war, thousands of quality specialists had been trained. In 1946, these specialists established the American Society for Quality Control (ASQC).

Although quality control methods were applied in the military industries during the wartime and quality control was established as a recognized discipline by the late 1940s, there were very few efforts to apply the methods in general. The U.S. managers generally ignored quality control methods for several decades until Japanese products gained a good reputation in the world market and gradually became dominant, not only in world markets but also on the American market.

The circumstances in Japan, however, were quite different after the Second World War. All of its industries had been destroyed, and people lacked almost everything. Under these circumstances, the most important and urgent task for Japan was to determine “how to survive.” In this almost hopeless situation, the only way to survive was to produce superior industrial products, which could be accepted by, and exported to, foreign countries. For this purpose, the Japanese Standard Association (JSA) was founded in 1945 and, in the following year, the Union of Japanese Scientists and Engineers (JUSE). Since then, these two organizations—JUSE and JSA—have played the central roles in the training and promotion of various quality control principles, tools, and methods.

The Japanese people confronted quality issues as their challenge, and in the following few decades, they revolutionized the quality of their products and thereby became recognized as the world leader in quality. Some major contributions in the revolutionizing process were the result of the role of the U.S. quality experts William Edwards Deming and Joseph M. Juran.

In recognition of Deming’s contribution to and encouragement of quality development in Japanese industries, JUSE established in 1951 the Deming Prize, which became not only the first prize in quality in Japan but also the role model for numerous other quality prizes in the world several decades later.

Another influential person from the United States was J. M. Juran, who, by giving lectures in 1954, influenced the Japanese to change the quality direction from an emphasis on the technique-oriented ASQC to an emphasis on managerial aspects and a broader approach to quality control. The impact of Juran’s visit resulted in a transition of the quality control concepts from the narrow technology-based approach to an overall management philosophy.

Under these circumstances, the special Japanese model for everybody’s involvement in QC—the so-called quality control circle—was born in 1962, which laid a foundation for company-wide quality control (CWQC). During the 1960s the CWQC approach spread to all major Japanese companies, and it was decided officially to use the term *company wide quality control* in 1969.

As a consequence of the committed implementation of company wide quality control, the market share of Japanese products increased rapidly during the 1960s and 70s in many industrial sectors. America and other relatively rich European countries did not pay serious attention to the gradual dominance of the Japanese products in world markets in spite of some “warning signals.”

During the 1980s, many American companies were to experience the loss of jobs and market share to Japanese competitors even in their home market of automobiles. In winning by quality rather than by any other single issue, the Japanese were able to achieve a massive market share which gradually became a serious threat to many Western countries, including the United States, during the 1970s and 1980s.
A remarkable turning point was provided in America and other Western countries when W. E. Deming, after three decades, was “rediscovered” in his home country in June 1980 by the National Broadcasting Company (NBC) television documentary *If Japan Can, Why Can’t We?* Since then, this documentary has been widely cited as a wake-up call to U.S. managers to focus on quality and on customers’ needs.

The 1980s became a revolutionary era for quality management in the United States and in other Western countries. An increasing number of companies adopted quality management, and parallel with that, numerous publications concerning quality management were published. In this period, many theoreticians attempted to develop a holistic or synthetic theory of quality management with all the relevant theories and practical experience taken in particular from the Japanese case. The term *total quality control* (TQC) and, later, *total quality management* (TQM), was often applied to these synthesizing theoretical attempts.

Another accelerating push toward the quality movement in this period was the establishment of the Malcolm Baldridge National Quality Award in 1987 in the United States, the Australian Quality Award in 1988, the birth of European Foundation for Quality Management (EFQM) in 1988, and the birth of the European Quality Award in 1991. In the following years, most western European countries established similar national quality awards as well as countries outside Europe such as China. It is assumed that today there are more than 90 national and regional quality awards in the world.

As seen from the evolution, the concepts used within the framework of quality evolved gradually, for instance the word *control* was gradually replaced with *management*. We can also observe the gradual change of wording for various quality awards. For instance, during 1992 to 1997, The EFQM model was termed “the European Model for TQM” or just “the European Quality Award Model.” During 1997–1999, the wordings changed significantly to “the European Model for Business Excellence.” The change was a systematic one which comprised not only the name of the model but also the text describing how to use the model for assessing a company’s level of business excellence or for award application purposes. This change of wording initiated by European Foundation for Quality Management (EFQM) in 1997 followed the change in the U.S. quality award model (the Malcolm Baldrige Quality Award) a year before. This change of wordings is a kind of evidence that people’s understanding and paradigms in relation to the theoretical scope and application of TQM changed significantly during the 1990s.

This change in attitudes is also reflected in the EFQM definition of *business excellence*: The overall way of working that results in balanced stakeholder (customers, employees, society, stakeholders) satisfaction is increasing the probability of long term success as a business (see also Kanji, 2006).

The above definition of business excellence indicates that TQM has moved from being a relatively narrow engineering or quality discipline which top management did not bother about too much, to a holistic management philosophy which has to be integrated in the daily management of all areas of any business.

**Importance**

During the last 10 to 15 years, several case studies have indicated that companies which have succeeded in investing and implementing TQM have improved their competitiveness as well as their profitability. Such case studies have, however, been regarded as weak indicators or no proofs of the potential impacts of TQM because other not-shown causal factors may have been disclosed in the case presentations and discussions. For that reason, more comprehensive studies on the financial impacts of TQM have been done in several regions of the world.

One example was a huge 1999 study in the United States in which researchers compared financial results and stock prices for more than 600 quality award-winning companies with a comparison company from the same industry over a period of 10 years. The results showed that during the implementation period (5 years before the first award was given), there were no significant differences in financial performance between the award-winning companies and the non-award-winning companies. But during the postimplementation period (5 years after the award), the award-winning companies outperformed the non-award companies, and the difference between the two groups of companies increased during this period. For example, it was documented that 5 years later, the award-winning
companies had experienced an average increase in operational income of 86%, while the non-award-winning companies had only experienced an average increase of 43%.

Another example was a 2006 study in Europe where 120 companies, which had won the European Quality/Excellence Award or the national equivalence, were compared with 120 non-award-winning companies from the same country and the same industry as the award-winning companies. The research study design was the same as the U.S. study, meaning that financial results and stock prices were compared during a period of 10 years for each pair of award- and non-award companies. The result patterns resembled and hence supported the U.S. results.

The results showed that during the implementation period (5 years before the first award was given) there were—as in the U.S. study—no significant differences in financial performance between the award-winning companies and the non-award-winning companies, but during the post-implementation period (5 years after the award), the award-winning companies outperformed—as in the U.S. study—the non-award companies, and the difference between the two groups of companies also increased during this period. For example, it was documented that 5 years after the award, the award-winning companies had a significantly higher performance in terms of revenues.

**Criticism of TQM**

Parallel with TQM’s appeal as being one of the most significant managerial approaches, TQM has also been subject to various criticisms especially during the last part of the 1990s.

First, the reliability of TQM as a successful managerial tool has been criticized by organizations that have tried to implement the principles and didn’t get the expected results. Organizations have been disappointed with the implementation of TQM, because TQM could not deliver what they expected. Data and information concerning alleged TQM failure rates and description of particular cases gave rise to a new debate of whether the companies which experienced failure really adopted TQM or not.

Second, regarding a critical aspect of TQM’s position as a general management theory, critics have stated that there is no consensus on terminology and definitions. TQM has also been criticized on the point that its main tenets are not all unique to TQM but are also part of other organizational change initiatives or generally accepted “good management practices.” Linkages between TQM and other management theories were lacking, organizational contingencies were not recognized, and organizational informal aspects such as power and politics were either completely forgotten or viewed as having little importance.

**Implementation of TQM**

Much of the critique of TQM is related to the high failure rate when private as well as public companies are trying to implement TQM. On the surface, it may seem surprising that failure rates of more than 70% have been reported in various research studies about the success of TQM. However, there may be several causes for such high failure rates. One simple cause may be that the companies’ management teams have not understood that implementing TQM is not “a quick fix” but is about the transformation of the company culture, a transformation where employees gradually through education and training are empowered and motivated to take over the responsibility for the continuous improvement process within their work areas. This transformation is also about the management team’s new role to build up a new organizational infrastructure where improvement teams are supported to take their own bottom-up initiatives, balanced with the strategic directions decided by management’s strategic plans for improvements. The latter has also been called strategic quality management (SQM), which is a natural part of the company’s yearly strategic planning process. To delegate the responsibilities for TQM implementation to an expert group—for example, the quality department—will inevitably lead to such high failure rates as reported in literature.

Another cause for high failure rates in TQM implementation may be related to the criticism mentioned above regarding the importance of organizational contingencies and informal aspects. This critique may especially be important if companies are trying to adopt so-called best TQM practices instead of adapting such best practices to the context where, for example, the national context may be quite different from the contexts where the “best TQM practices” worked. This issue seems not to have been raised too much among the Western quality professionals.
who have influenced the quality evolution, even if it was raised early in the 1950s in Japan by “the brain” behind just-in-time (strategy), the Toyota production system (TPS), and lean production (practice)—chief engineer Taiichi Ohno—who in 1950 declared, after his first study visit to the world’s then most efficient automobile assembly factory, that mass production as running at Ford could never work in Japan. Without this skepticism to adopt best methods, we may not have seen and experienced lean production, and Toyota would not have grown to be one of the top three automakers in the world.

A similar case of adaptation instead of adoption can be found in the success story of Samsung in South Korea. The company developed its own unique quality culture throughout the 1990s and continued to refine management systems so that it fits to their needs and circumstances.

Another example of adaptation instead of adoption is also from the early quality evolution in Japan, where Professor Ishikawa in the beginning of the 1960s suggested the so-called quality control circles (QCCs) be promoted and implemented in Japanese companies. Promoting QCC was quite another way of involving people in quality improvements compared with the best practices from the United States where people involvement was based on control (the principles and methods of scientific management) instead of empowerment through study and learning through practice. The Japanese success with QCC became heavily studied in the 1970s and 1980s, and many Western companies experienced failures when they tried to copy (adopt) the Japanese way of implementing QCC circles because they did not understand that adaptation to the national and company context is a necessity for success.

These learning points, as well as many others, say clearly that Total Quality Management should not be copied from companies which have had success with the TQM implementation. Successful companies’ TQM systems should be studied only for inspiration; then, each company should build up its own TQM framework based on the basic principles or generalized values characterizing TQM.

Su Mi Dahlgaard-Park

See also Excellence Characteristics; Kaizen and Continuous Improvement; Lean Enterprise; Organizational Learning; Quality Circles; Quality Trilogy; Six Sigma; Strategies for Change

Further Readings


Trait Theory of Leadership

Trait theory’s central premise is that leadership emergence and effectiveness can be explained in terms of stable and consistent differences in how individuals behave, think, and feel. This begs the questions: Are leaders born or made, and is leadership an art or science? The answers to these questions are not quite as simple as leadership theorists perhaps would like. Consequently, researchers have spent many years studying and identifying traits associated with leaders and leadership. The following sections describe the core traits associated with leadership, the history and development of trait theory, and finally, the importance and implications of trait theory to managers in the workplace.

Fundamentals

In many different walks of life, social structures are formed, and within those structures emerges a leader, an “alpha male” or “queen bee.” The universality of a construct like leadership reinforces the concept of individual differences in that not everyone can rise to the top. Indeed, the fundamental thesis of trait theory is that possession of certain traits
allows individuals to ascend to leadership positions over the collective and to perform their roles well. Although conceptualizations of leadership have evolved, traits remain an enduring thread in the progression of leadership research. Individual differences matter across many contexts and, in light of contingency theories, also within context. In the realm of leader perception, traits form the basis by which one evaluates leader ability which in turn impacts the relationship between leaders and followers. Traits or individual differences in thought, feelings, and behavior, form the core of trait theory. Relevant to leadership, personality and intelligence are the two most frequently studied traits.

**Personality and Leadership**

**Big five and leadership.** The big five factor model was first developed in the 1930s, but with technological and statistical advances in the 1980s, it has become the indispensable framework of personality due to its explanatory strength. The big five consists of five distinct factors, including neuroticism (emotional stability), extraversion, openness, agreeableness, and conscientiousness. Neuroticism is associated with negative affect, anxiety, and insecurity. Extraversion is associated with positive affect, energy, and a tendency to be socially outgoing. Openness is associated with creativity, openness-mindedness, and eagerness to learn. Agreeableness is associated with being accommodating, caring, and trusting. Finally, conscientiousness is associated with achievement and dependability. As a result of these five broad and inclusive categories, personality traits that once yielded only scattered and inconsequential findings in terms of leadership could be studied more systematically. Using this framework, researchers found higher levels of extraversion, conscientiousness, and openness and lower levels of neuroticism were related with both leader emergence and effectiveness exhibiting moderate effect sizes.

**HEXACO and leadership.** The big five framework has several strengths, including its relative parsimony and prevalence in organizational and psychological research studies on personality. Despite these strengths, some researchers believe more than five traits are necessary to capture the full extent of personality traits described in our lexicon. Consequently, the HEXACO Personality Inventory has been developed which includes an honesty-humility factor in addition to the big five for a total of six underlying dimensions of personality. Research using the HEXACO Personality Inventory has shown both agreeableness and extraversion to be associated with leadership.

**Charisma and leadership.** Although the big five framework and HEXACO Personality Inventory examine personality and its relation to leadership in terms of multiple traits, charisma may be best understood as a combination of traits. Charismatic leaders are unconventional visionaries who are willing to take risks and challenge the status quo in an effort to bring about change in their organization. Additionally, charismatic leaders have excellent communication skills and know how to use emotion to make others feel competent while inspiring trust and hope. As a result, followers identify with charismatic leaders and go above and beyond what is normally required to help the leader achieve his or her goals. Past research shows charismatic leadership is associated with the big five’s extraversion, openness, and agreeableness traits. In terms of the HEXACO, charismatic leadership is associated with high levels of extraversion, conscientiousness, agreeableness, openness to experience, honesty-humility, and low levels of emotionality.

**GLOBE studies and leadership.** While the majority of leadership research has taken place in North America and Western Europe, there has been a steady and increasing recognition that culture may also play a large role in leadership. To determine whether or not certain leadership traits were universal or culturally contingent, the Global Leadership and Organizational Behavior Effectiveness (GLOBE) Project examined cultural differences and/or similarities in leadership for over 60 countries around the world. Results of this project showed a universal belief that effective leaders possess charisma, integrity, and successful team-building skills. In addition, universal impediments to effective leadership were managers who were loners, asocial, non-cooperative, irritable, nonexplicit, egocentric, ruthless, and dictatorial. While these positive and negative leader attributes were considered to be universal, traits related to being self-centered and individualistic were viewed by some cultures to be positive and negative in others.
**Intelligence and Leadership**

**General cognitive intelligence and leadership.** Intelligence has long been identified as one of the most important traits in not only leadership but also job performance in general. Indeed, some of the earliest research in trait theory and leadership found that general cognitive intelligence was one of the only traits perceived to be possessed by all types of leaders and in all contexts. While more recent investigations continue to indicate intelligence is a strong predictor of leader emergence, intelligence is not as strongly associated with leadership effectiveness as other frameworks such as the big five of personality or models of specific intelligences.

**Emotional and social intelligence and leadership.** Research is starting to suggest there are limits to which traditional forms of intelligence can explain leadership effectiveness. More recently, emotional and social intelligence (ESI) has been investigated as an explanation for leadership effectiveness when traditional views of intelligence fail. Indeed, leaders who show empathy and attempt to understand the emotions of others are consistently rated as more effective leaders. ESI comprises two components, emotional intelligence and social intelligence, and refers to the ability of individuals to understand and use effectively not only their own emotions but those of others as well. As a result, ESI researchers feel that the best leaders are interested in promoting positive affect in followers.

**Cultural intelligence and leadership.** Related to emotional intelligence is the concept of cultural intelligence or CQ. Whereas ESI is mainly relegated to the domain of interindividual interactions, cultural intelligence deals with understanding the norms, traditions, and customs of a group. Those who have high levels of CQ are able to recognize shared beliefs, values, and attitudes of a group and are able to effectively apply this knowledge in order to achieve a goal. Researchers studied 2000 managers from 60 different countries and identified six profiles of CQ which reflect different combinations of cognitive, physical, and emotional-motivational dimensions of CQ. The six profiles include the provincial who prefers staying local, the analyst who exhibits strong cognitive skills, the natural who relies on intuition, the ambassador who has the motivation and confidence to belong, the mimic who mirrors others, and the chameleon who has the ability to take on the persona of any of the other profiles.

**WICS model and leadership.** Leaders may possess different types of intelligence that matter for leadership yet fail because they do not utilize them effectively. The wisdom, intelligence, and creativity synthesized (WICS) model proposes that effective leadership is due in large to making good decisions and using all three of these attributes simultaneously. Effective leaders use creativity to generate ideas, intelligence to analyze and implement the ideas, and wisdom to ensure they represent the common good. WICS holds that the best leaders exhibit all three qualities of intelligence, creativity, and wisdom. It also holds that these skills can be developed.

**Evolution**

Just as our understanding about the relationships between personality, intelligence, and leadership has changed over time, the trait theory also has been revised and adjusted as a result of new research findings. Trait theory has not always been revered for its time and place in leadership research. Many texts narrate the rise, fall, and resurgence of trait theory. Trait theory research was once disdained as “futile,” “atheoretical,” and “simplistic” for inconsistencies in early findings. Trait theory was later restored with the aid of psychometric advances in personality assessment and meta-analytic reviews. The following section synthesizes the progression of trait theory ideology and findings.

**The Rise and Fall of Trait Theory**

The earliest conceptualizations of leadership are linked to the “great man” theory, which presumes great men are born not made. This necessitates that leaders possess heritable traits that distinguish them from nonleaders.

The great man theory evolved into the trait theory. Following from this perspective, systemic trait theory research commenced in the 1930s with the driving questions being, What characteristics differentiate leaders from nonleaders and effective from ineffective leaders? Many different individual differences were examined as predictors of leader emergence and effectiveness. Trait theory offered no strong distinctions about whether leadership abilities are innate or acquired. The dominant part of this
literature, published between 1930 and 1950, was criticized as being futile due to lack of consistency in findings offering clear distinctions between leaders and nonleaders and moreover across situations. In light of the psychometric capabilities of the time, operationalization and measurement issues contributed to the downfall. Recent attempts to integrate the literature categorize individual difference variables as traitlike or statelike, offering some resolve to the question, Are leaders born or made?

The Resurgence of Trait Theory

Until the 1980s, trait theory was largely discredited as a theory of leadership. Advances in personality assessment ultimately led to its resurgence. In the 1980s, several seminal studies emerged that directly challenged the evidence leading to the rejection of the trait theory.

First, researchers statistically aggregated findings from many separate research studies investigating trait theory and found intelligence, masculinity, and dominance were significantly related to leader perceptions. They also concluded that much of the confusion surrounding leadership traits resulting from nonsignificant and inconsistent findings in the past might have occurred as a result of poorly defined personality constructs. For example, two different researchers approaching the same personality trait may actually define and measure the construct in very different ways. As a result, publications may refer to one specific personality trait and actually mean something entirely different.

Second, researchers have noted the difference in merits between the more distinct and specific personality traits that were originally the emphasis of trait research and the higher order, broader personality categories they create. Although specific personality traits may be more predictive in one instance, because they are more exact and relevant to the phenomenon of interest, broad personality traits may be easier to define and measure in some cases thanks to the big five personality framework. Recent research findings maintain positive relationships between leader emergence and effectiveness with extraversion, conscientiousness, openness, charisma, and negative relationships with neuroticism. Charisma, in particular, seems to be associated with leadership emergence and effectiveness; however, this concept is riddled with issues of definition and measurement. There is some debate as to whether charisma is even a trait since many of the attributes associated with it, such as persuasive speaking, confidence, and dominant body language, can be learned and developed over time. Moreover, while charisma is typically associated with positive outcomes, such as increased follower motivation and commitment to the organization, it has no moral dimension. Hence, leaders who possess charisma can use their incredible influence for either moral or immoral ends.

Finally, new models of leadership that include general cognitive ability and emotional and cultural intelligences, as well as creativity, have bridged a gap in the literature left by traditional models. While general cognitive ability is associated mainly with leadership emergence, other forms of intelligence are associated with effectiveness. Specifically, the WICS model argues intelligence is important only to the extent that leaders are able to use its products (e.g., creativity, ideal implementation, and wisdom) successfully.

Models of Leader Attributes and Leader Performance

In addition to personality and intelligence, leadership researchers in recent years have focused on other categories of leadership skills and attributes beyond the contributions of the big five and intelligence. These models of leadership effectiveness include broad statelike attributes such as (a) motivation, (b) social skills, and (c) metacognitive skills.

Motivation. Just because an individual has the cognitive ability and personality to lead does not mean that they will actually accept leadership roles. Therefore, “motivation to lead” has been examined as a mediating variable, which determines whether those who have the cognitive ability and personality to lead actually take on a leadership role. Motivation, and a similar construct of responsibility, has been found to be associated with leader emergence, promotion, and effectiveness.

Social skills. The term social skills refers to the ability of leaders to understand themselves and others in terms of thoughts, feelings, and behaviors in a social context. The most predominant variable studied in the social skills arena is self-monitoring. Self-monitoring reflects the propensity to regulate and scrutinize one’s presentation of the self as a result of the social setting.
Findings indicate high self-monitors are more likely to be promoted, and consequently, emerge as leaders.

**Metacognitive skills.** Metacognition involves planning, memory, attention, reasoning, motivation, and processing information. Specifically, those with high levels of metacognitive skills are thought to have the ability to reflect on the way in which they think and learn and, as a result, are better able to know what they need to do to learn and succeed in the workplace. Thus, metacognition is fundamental to problem solving and manifests itself as expertise. Therefore, those with higher levels of metacognitive skills are more likely to emerge as leaders.

**A Theory of Leader Attributes and Followers’ Perception**

The power of the traits discussed thus far goes beyond their ability to predict leader emergence and effectiveness. Traits also form the basis by which we judge leadership ability. Leadership perception is inherent to the leadership process. One must be seen by others as a leader before she or he is able to lead. Furthermore, the extent to which an individual is perceived as a leader influences the relationship with followers and ultimately effectiveness. Leadership categorization theory contends that as individuals interact with leaders over time, we develop a relatively stable idealized view of what a leader should be and use this view to judge leadership in ourselves and others. Traits are the basis of these judgments, specifically personality, intelligence, motivation, social skills, and metacognitive skills. Individuals categorize another as a leader or not based on whether the exhibited traits match those of the idealized view of a leader. Researchers have found when leaders match our idealized view of what a leader should be we are more likely to be influenced and rate those leaders as more effective. Findings suggest effective leaders achieve positive outcomes, not only as a function of their own traits and skills but also through the admiration and willingness of their followers to support them.

**The Bright and Dark Side of Leadership**

Leader perceptions have typically been studied in terms of effective leadership traits. Indeed, leadership has been synonymous with the best of human qualities. However, as business scandals demonstrating epic failures of leadership at the highest levels of the organization became ever prevalent in the early part of the century, e.g., Enron and American International Group (AIG), a burgeoning interest in destructive leadership and the traits composing it emerged.

Leadership researchers began to examine the possibility that ineffective leadership was the result of dysfunctional or destructive traits rather than the lack of prototypical or effective ones. Eleven traits have been identified as those possessed by “dark” leaders, including excitable, skeptical, cautious, reserved, leisurely, arrogant, dutiful, diligent, imaginative, colorful, and mischievous. It is thought these traits result in a high probability of leader derailment since they make the leader more likely to blow up, show off, or conform when under pressure. Consequently, hiring managers may be well advised to select for candidates that do not possess dark traits. Although this is a sound piece of advice, conflicting and confusing findings regarding these dark traits underscore the difficulty in implementing it. Specifically, narcissism and assertiveness seem to be two traits which have both a “bright side” as well as a dark side.

**Narcissism.** Narcissism refers to the level of egoism, selfishness, conceit, or vanity an individual feels. While many studies have reinforced the idea that narcissism leads to abuse of power and rule breaking, other work has shown that healthy levels of narcissism may be associated with positive leadership qualities, such as vision and creativity.

**Assertiveness.** Assertiveness describes the extent to which one proactively pursues self-interests, either by voice or action. Assertiveness, like narcissism, is a trait which has plagued leadership researchers. Despite numerous studies attempting to pin down the role of assertiveness in leadership, this construct is surrounded by confusion. Too much assertiveness is associated with ineffective leadership and is characterized by displays of hostility and competitiveness. On the other hand, leaders who display too little assertiveness are marked as pushovers and are unable to reach goals.

While one of the difficulties with the dark side is the challenge of understanding the role of certain dark traits in leadership, it has also been an opportunity for researchers to start examining traits in combinations rather than as sole determinants of
effective leadership. Indeed, the value of assertiveness and narcissism cannot be described in terms of linear combinations. Rather, the impact of traits, both bright and dark, is best understood in terms of whole configurations or patterns where certain traits complement or detract from one another. The pattern approach is an alternative to the variable approach typically examined by trait theorists and ushers in the new age of leadership and trait research.

**Taking a Pattern Approach to Leadership**

Leadership is the result of a set of complex and multifaceted behaviors that are often reflected in a combination of skills and attributes, not just one trait. Despite this acknowledgement, a substantial amount of leadership research examines traits in isolation from one another rather than as a pattern.

Due to the strong focus on the individual, person-oriented approaches are useful for the study of leader emergence and effectiveness. Individuals are differentiated from one another into subgroups based on patterns determined by their standing on a set of characteristics or traits. Importantly, person-oriented approaches parsimoniously model interactions among variables at the person level as a pattern of characteristics, rather than as individual interactions among variables. Research shows that groups of people sharing similar patterns of personality interact and engage with the environment in similar ways. Over time, then, individuals within a cluster are growing and adapting in similar fashion, thus, providing a more realistic and holistic understanding of how leaders behave and more insight into what differentiates effective from ineffective leaders.

Recent studies taking a pattern approach have found that constellations of different leadership traits explain leader emergence and effectiveness better than taking the sum of the same leadership traits. Indeed, researchers have found that a pattern of high intelligence, dominance, general self-efficacy, and self-monitoring among military students resulted in higher levels of leader emergence, promotion, and effectiveness ratings. Additionally, effective leaders have been found to use a combination of transformational behaviors, exchange-based transactional leader behaviors, and a low-level of passive management-by-exception behavior. These optimal patterns were associated with the highest levels of subordinate satisfaction and commitment. Given findings from pattern-oriented research, hiring managers should consider patterns of traits rather than individual, isolated traits as well as patterns that are most likely to be optimal given the role or workplace.

**Importance**

Findings from studies examining patterns of traits as well as meta-analyses demonstrate unequivocally that traits do matter in leadership. Trait theory is the first theory of leadership and essentially underpins all others. Strengths of the trait theory include the fact it is rational, valid, and has stood the test of time. The theory is sometimes critiqued as being too simplistic; however, it is precisely this simplicity that makes the trait theory generalizable, applicable, and long standing. However, the paradox of traits is they ignore contexts. Specifically, a trait associated with leadership in one situation may become irrelevant, or worse, counterproductive, when a situation changes as noted in the discussion of the bright side and dark side of personality traits.

Trait theory can be used at all levels of the organization to both select and develop future leaders. Some traits, such as general cognitive intelligence and personality variables, should be selected for as they are theorized to be heritable and stable. Although useful, traits are not perfect predictors of leadership, and other important factors such as culture, organizational structure, and hierarchical level need to be considered.

Finally, other traits such as social skills, metacognitive skills, ESI, cultural intelligence (CQ), and WICS are viewed as flexible and dynamic rather than as rigid and static. They are, to some extent, modifiable forms of developing expertise that can be developed through training or experience.

All in all, trait theory findings are informative for managers in helping identify their own as well as their subordinates’ strengths and weaknesses. Such assessments can help managers determine which employees to promote and which may require training before succeeding to leadership positions. Further, managers are encouraged to consider patterns of traits and how these patterns map on to the specific demands of different positions and situations, in making such decisions.

Roseanne J. Foti, Sarah F. Allgood, and Nicole J. Thompson
Transaction Cost Theory

Transaction cost theory emerged in the 1970s as a theory of vertical integration and buyer-supplier relations. It has since become a more general explanation for firm boundaries, organization, and governance, providing insight into vertical structure, complex contracting, regulation, financing choice, public-private interaction, and other important economic, legal, and organizational phenomena. Transaction cost economics (TCE) is foundational to many of the core questions in management and increasingly popular in research and teaching in strategic management, governance, international business, and regulation. This entry will explain the origin and nature of transaction costs, show how transaction costs influence organizational structure, review the development of transaction cost theory, and conclude with empirical evidence and managerial applications.

Fundamentals

Transaction Costs

Transaction costs entered the discussion about firms with Ronald Coase’s influential 1937 article, “The Nature of the Firm.” Coase argued that entrepreneurs internalize activities within firms to reduce the costs of search, communication, and bargaining. Absent these transaction costs, production could be organized through networks of independent contractors, with their interactions mediated by the price mechanism. In other words, without transaction costs, there is no reason for firms.

These arguments have been elaborated most forcefully by Oliver Williamson, who developed insights from Coase, John R. Commons, Herbert Simon, and others into a more general transaction cost theory of economic organization. Transacting is costly not only because of the problems described by Coase but also because complex transactions often require co-specialized investments, and investing in relationship-specific assets exposes trading partners to particular risks. Forward-looking agents will structure their relationships to minimize these risks. Unlike conventional economics treatments of firms and industries, the focus here is on transactions, not firms, and on the difficulties of contracting, not the technical aspects of production (scale, scope, etc.). Also, in contrast with industry and competitive analysis as developed by Michael Porter, the key to the firm’s success is seen as its ability to organize transactions efficiently, not its ability to leverage market power. As in the resource-based view of the firm, TCE focuses on assets but is interested in how they are organized and governed, not their ability to generate rents.

A more detailed illustration will help. Consider vertical integration, the first problem to be studied systematically in transaction cost terms. Economists traditionally viewed vertical integration and other forms of vertical coordination as attempts by dominant firms to earn monopoly rents by gaining control of input markets or distribution channels, to engage in price discrimination or to eliminate
multiple markups along the supply chain. TCE, by contrast, emphasizes that in-house production or procurement from particular suppliers in long-term relationships can be an efficient means of mitigating contractual hazards. However, vertical coordination brings other kinds of transaction costs, namely, problems of information flow, incentives, monitoring, and performance evaluation. The boundary of the firm, then, is determined by the trade-off, at the margin, between the relative transaction costs of external and internal exchange.

In a world of positive transaction costs, contracts are unavoidably incomplete—they provide remedies for only some possible future contingencies. This obviously applies to written contracts for all but the simplest forms of trade. It also applies to relational contracts, agreements that describe shared goals and a set of general principles that govern the relationship, and to implicit contracts—agreements that, while unstated, are assumed to be understood by all sides. Contractual incompleteness exposes the contracting parties to certain risks. Primarily, if circumstances change unexpectedly, the original governing agreement may no longer be effective. The need to adapt to unforeseen contingencies constitutes an additional cost of contracting; failure to adapt imposes what Williamson calls “maladaptation costs.”

The most often-discussed example of maladaptation is the “holdup” problem associated with relationship-specific investments. The holdup problem figures prominently in the interpretations of the transaction cost theory. Investment in such assets exposes agents to a potential hazard: If circumstances change unexpectedly, the original governing agreement may no longer be effective. The need to adapt to unforeseen contingencies constitutes an additional cost of contracting; failure to adapt imposes what Williamson calls “maladaptation costs.”

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Transactions differ in the degree to which relationship-specific assets are involved, the amount of uncertainty about the future and about other parties’ actions, the frequency with which the transaction occurs, and so on. Each matters for the preferred institution of governance, although the first—asset specificity—is particularly important. Asset specificity is durable investments that are undertaken in support of particular transactions. Investments that are specific to a particular transaction have a higher value to that transaction than they would have if they were redeployed in best alternative uses or users. This could describe a variety of relationship-specific investments, including both specialized physical and human capital, along with intangibles such as research and development (R & D) and firm-specific knowledge or capabilities.

**Markets, hierarchies, and hybrids.** The pure anonymous spot market suffices for simple transactions, such as basic commodity sales. Market prices provide powerful incentives for exploiting profit opportunities and market participants are quick to adapt to changing circumstances as information is revealed through prices. When relationship-specific assets are at stake, however, and when product or input markets are thin, bilateral coordination of investment decisions may be desirable, and combined ownership of these assets may be efficient. The transaction cost approach maintains that such hierarchies offer greater protection for specific investments and provide relatively efficient mechanisms for responding to change where coordinated adaptation is necessary. Compared with decentralized structures, however, hierarchies provide managers with weaker incentives to maximize profits and normally incur additional bureaucratic costs.

Much recent strategy literature has focused not on markets and hierarchies but intermediate, or
“hybrid” forms, such as long-term contracts, partial ownership agreements, franchises, networks, alliances, and firms with highly decentralized assignments of decision rights. Hybrids attempt to achieve some level of central coordination and protection for specific investments while retaining the high-powered incentives of market relations.

**Financial decisions.** The firm’s financial structure can also be interpreted in transaction cost terms. The choice between debt and equity is treated in this framework as a trade-off between rules and discretion. Debt represents a more rigid, rules-based financial mechanism, while equity is more flexible and discretionary. In the event of failure, control over the underlying asset reverts to the creditor, who might exercise liquidation of the assets. Although the creditor might choose to concede some discretion allowing the borrower to work things out, the advantage of equity reflects its governance design the existence of administrative processes that can facilitate the practice of working things out. While the need to work things out would be low for financing of projects with redeployable assets, the demand to work things out increases as redeployability diminishes. Equity is much more intrusive and involves the active role of investors in the management of the project. In this setting, Williamson proposed that the condition of asset specificity is the primary factor to explain the use of debt versus equity finance.

Firms try to choose the financial mechanism that minimizes the costs of external funding. Debt is a low-cost governance arrangement for projects involving highly redeployable assets, because if the project is successful, interest and principal will be paid on schedule, and if the project fails, debt-holders can liquidate assets to recover their investments. The opposite applies when the assets involved in a project are highly specific (i.e., non-redeployable) and, hence, have lower value for other purposes in case the project is liquidated. Creditors may lack the skills or means to monitor projects actively involving few collateralizable assets. These projects involve high risk for banks, and even if banks were to make loans to high risk projects, the interest rate required would be extremely high, creating liquidity problems for the firm. Equity governance, by contrast, provides incentives for investors to monitor firms more closely.

**Equilibrium and adaptation.** The discriminating alignment hypothesis does not necessarily assume that trading partners behave “optimally” in every transaction. Indeed, Williamson, unlike other transaction cost theorists, such as Benjamin Klein, Robert Crawford, Armen Alchian, Sanford Grossman, and Oliver Hart, place particular emphasis on adaptation as a characteristic of organizational forms. In other words, particular organizational forms may be chosen because they facilitate sequential, coordinated adaptation.

**Evolution**

As noted above, transaction cost theory is rooted in the seminal work of Coase, Commons, and Simon. Coase was the first to explain that the boundaries of the organization depend not only on the productive technology but also on the costs of transacting business. Commons argued that the transaction, not the firm, should be the unit of analysis, directing researchers’ attention to the behavior of contracting parties and emphasizing the role of law in influencing behavior. Simon developed the notion of bounded rationality, the idea that economic behavior is “intendedly rational, but only limitedly so”—the core idea of modern behavioral theories of management. These concepts were integrated into a comprehensive transaction cost theory of the firm by Williamson, Klein, Crawford, and Alchian in the 1970s.

The transaction cost literature of the 1970s and 1980s focused largely on vertical integration, or the “make-or-buy decision.” More recently, transaction cost theories have sought to explain not only the choice between external and in-house procurement—“markets and hierarchies,” to borrow the title of Williamson’s hugely influential 1975 book—but also the rationale for hybrid forms, such as long-term contracts, franchises, joint ventures, alliances, and other intermediate forms. Hybrids represent a blend between the benefits of centralized coordination and control and the incentive and informational advantages of decentralized decision making. Of course, hybrids are increasingly important in the networked, knowledge-based economy, and transaction cost theory focused increasingly on the design and evolution of hybrid forms.

In the transaction cost literature associated with Coase and Williamson (often termed “transaction
Transaction Cost Theory

Transaction costs are conceptualized as the costs resulting from the transfer of property rights. However, there is another transaction cost tradition, associated with economists such as Alchian, Harold Demsetz, Steven Cheung, and Yoram Barzel, which treats transaction costs as the costs of establishing and maintaining property rights. This concept is also important for strategic management. Value creation and capture often depend on defining and enforcing economic rights, meaning the enforceable residual income and control rights associated with ownership. For example, attempts to capture value through competitive positioning assumes that the focal firm’s suppliers or customers cannot contract around competitive imperfections by forming coalitions, making side payments, and otherwise challenging attempts to build and sustain market power. Many resource-based arguments about value creation and capture depend on assumptions about transaction costs. Moreover, while transaction cost and capabilities approaches are typically seen as rival explanations for firm boundaries and internal organization, recent contributors proposed that these two approaches can be usefully integrated by viewing transaction costs as antecedent to capability development.

In addition, several important extensions to the theory should be noted. First, the governance of a particular transaction may depend on how previous transactions were governed, what Nicholas Argyres and Julia Liebeskind call “governance inseparability.” Where governance inseparability is present, firms may rely on arrangements that appear inefficient at a particular time, but which make sense as part of a longer term process. This way, changes in governance structure affect not only the transaction in question but also the entire temporal sequence of transaction. Transaction inseparability also appears within firms. Consider, for example, the biotechnology industry, in which large pharmaceutical companies have been unable to achieve the research capabilities of small firms. An explanation is that large firms employ both traditional research scientists, who are accustomed to low-powered incentives such as restrictions on publication, and biotechnological researchers, who respond better to higher powered incentives. It is difficult for the large firm to use different governance structures for different groups of scientists.

Second, the capability to improve transactional performance through time is particularly important where contracts govern interfirm relationships. In this setting, firms with superior contract design capabilities might be faster to use the market to organize the marginal transaction, whereas firms with weaker contract design capabilities might tend to internalize those same marginal transactions. Moreover, learning to contract and learning to collaborate might have an intimate relationship. That is, firms might not learn to contract with each without also learning to contract with each other.

**Importance**

**Empirical Research on Transaction Costs**

One reason the transaction cost approach has become so popular in management is because it has inspired a large and diverse empirical literature. Much of the empirical work on transaction costs and firm structure follows the same basic model. The efficient form of organization for a given economic relationship—and, therefore, the likelihood of observing a particular organizational form or governance structure—is seen as a function of certain properties of the underlying transaction or transactions: asset specificity, uncertainty, frequency, and so on. Organizational form is the dependent variable, while asset specificity, uncertainty, complexity, and frequency are independent variables. Specifically, the probability of observing a more integrated governance structure depends positively on the amount or value of the relationship-specific assets involved and, for significant levels of asset specificity, on the degree of uncertainty about the future of the relationship, on the complexity of the transaction, on the frequency of trade, and possibly on some aspects of the institutional environment.

Detailed surveys of this literature are provided in the reference list below. Classic papers include Scott Masten’s study of aerospace component procurement, a series of papers by Paul Joskow on long-term contracting for coal, and research by Erin Anderson and coauthors on marketing channels and several other industry case studies. In most of these studies, organizational form is often modeled as a discrete variable—make, buy, or hybrid, for example—though it can sometimes be represented by a continuous variable. Of the independent variables, asset specificity has received the most attention, presumably because of the central role it plays in the transaction cost approach to vertical integration.
Case studies compose the bulk of the studies on the make-or-buy decision, primarily because the main variables of interest—asset specificity, uncertainty, and frequency—are difficult to measure consistently across firms and industries. Although the evidence from individual cases may not apply to other cases, the cumulative evidence from different studies and industries is remarkably consistent with the transaction cost arguments. Nevertheless, there remain outstanding puzzles, challenges, and controversies. For example, many studies use a reduced-form model linking transactional attributes to organizational choices, without a detailed underlying structural model of what these attributes do, how they interact, and so on. Critics have suggested that alternative theories derived from social psychology, identity theory, organizational sociology, and the like could also be consistent with an observed relationship between (say) asset specificity and vertical integration. Put differently, the transaction cost literature has focused much more heavily on the transaction cost of market exchange than the transaction costs or organizational costs of in-house production.

**Practical Implications**

Transactions costs—both the cost of transferring existing property rights and the costs of defining and enforcing property rights—are highly important for firm strategy and organization. The transaction cost approach has become a standard part of the strategist’s toolkit for explaining the choice of organizational form, and transaction cost considerations underlie many of the standard conclusions about competitive positioning and the development of capabilities.

Managers can find transaction cost theory particularly useful in designing and executing contracts, managing internal hierarchies, and dealing more generally with customers, suppliers, employees, and partners. The fundamental lesson of transaction cost theory is that the cost of governing transactions depends on their characteristics, such as asset specificity, and that organizational form should be chosen to match these characteristics. Failure to protect against opportunist behavior by trading partners exposes firms to critical hazards that threaten profitability and sustainability. Relationship-specific investments, for example, should be protected with appropriate formal or informal contracts, offsetting specific investments or joint ownership. Trading partners will not make desired investments specific to the focal firm without similar protection. Employees will be reluctant to learn idiosyncratic routines and procedures—that is, to invest in firm-specific human capital—without explicit or implicit long-term employment contracts. In general, firms should consider not only the technical aspects of production and distribution but also the costs of contracting, when considering organizational design.

**Peter G. Klein and Mario P. Mondelli**

See also Agency Theory; Behavioral Theory of the Firm; Bounded Rationality and Satisficing (Behavioral Decision-Making Model); Organizational Structure and Design; Resource-Based View of the Firm; Strategic Alliances

**Further Readings**


Transfer of Technology

Transfer of technology, often referred to as TOT, is a conceptual framework that integrates empirical generalizations and midrange theories about transfer of technical, organizational, and operational knowledge in a variety of forms and contexts between institutional providers and recipients. It articulates the attributes of technical knowledge, organizational mechanisms used for its transfer, characteristics of the provider and recipient, national policies and intellectual property rights law, and other contextual factors and how all these elements interact, to predict outcomes of improved technological capabilities of institutions and nations. The “not-invented-here” syndrome is a behavioral phenomenon that has been identified as a barrier to TOT for mainly tacit and informal technical knowledge. The following section of this entry describes the main elements of the conceptual framework, their interactions, and their organizational and national context, including theoretical antecedents and context and addressing the evolution of the framework. The final section reviews the impact this framework has had on management research and education and on management practice, consulting, and professional training.

Fundamentals

Technology and Transfer Mechanisms

The concept of technology transfer involves complexity and dynamism. Technology embodies machinery, tools, equipment, skills, and knowledge of personnel, technical information, organizational processes, and management practices. The interrelationships of these aspects of technology and the symbiotic integration of technology and the social, cultural, informational, and economic aspects of the organization are imperative for an effective transfer. Aggregated to the national level, the realization of the benefits of TOT is critical for economic development and international competitiveness.

Effectiveness of TOT is dependent on numerous factors, and technology is the central element of the framework. The technology life cycle model depicts technological performance trajectory as an S-curve, its logic related to the concept of technological paradigms, with theoretically defined limits of capabilities. A phenomenon that contradicts this theory was observed when mature technologies improved beyond the S-curve trajectory in response to the emergence of a new and better technology. Theory of learning and knowledge acquisition, such as stages of knowledge from art to science, in the context of process control, is relevant here. The emerging, progressing, and maturing stages are characterized by the evolution in the nature of the technology on the continua of codification, from tacit to codified; ambiguity, from high to low; and uncertainty, from high to low. Economists use the concept of stickiness of information or knowledge, and mature technologies are less sticky. Consequently, mature technologies are easier to assess, learn, integrate, and transfer.

A basic principle is that transfer mechanism must fit the nature of the technology, from informal flow of uncodified know-how among individuals all the way to turnkey plants and complex equipment. A related theory of industrial evolution, on which the product life cycle model hinges, identifies the shift in the patterns of innovation from product focused to process focused.

TOT mechanisms are the nature of interaction between the technology provider and the recipient. Empirical studies suggest that noncodified parts of technology are not often traded because such firm-specific knowledge is of less importance in the perception of many technology recipients deterring the utilization of technology. The arms-length market mechanisms, such as licensing and subcontracting, are suited more for mature technologies, and progressing or emerging technologies are more inclined toward internalized mechanisms, such as foreign direct investment or strategic alliances. Both competitive and noncompetitive mechanisms carry the potential for yielding favorable benefits for partnering entities. The policy environment such as foreign investment and foreign exchange controls can dictate the choice between licensing and foreign direct investment mechanisms in international TOT.

Determinants of Effectiveness

The conceptual model of TOT consists of basic elements of technology and transfer mechanisms, technology provider, and technology recipient, interacting in the global context and the attributes of the country of the technology recipient. The interaction of these elements impacts the effectiveness of transfer, being contingent upon the nature of the
technology being transferred. For emerging and tacit technologies, effectiveness depends on successful learning and integration with internal process and knowledge, such as new product and process development. For the mature end of the continuum, as the TOT activities are embodied in a specific project or program, effectiveness is project success, which includes process cost improvement or higher value-adding product features. On the national level, effective TOT improves international competitiveness in terms of factor productivity and export volumes, and consequently gross domestic product (GDP) per capita measures. Related outputs are also measured in national science, technology and innovation indicators.

Conceptually, vertical technology transfer is down the value chain, either interinstitutional between manufactures and suppliers or research and development (R & D) institute, or university to industry, or intrainstitutional from R & D design to production. Horizontal technology transfer, on the other hand, takes place inside a link in the value chain, such as between different manufacturers or universities. Another classification is geographic, with increased complexity in international technology transfers.

The process of TOT commences with the identification of technology requirements which arise from the external pressure—such as the market pushing technology or being pulled by firms with advanced technological capabilities—to pursue opportunities. The factors of business strategy, firm size, financial and nonfinancial resources, perceived benefits of technology acquisition, industry competitiveness and dynamism, market characteristics, and the need of emulating the competitors influence technology acquisition decisions. The degree of influence varies with the size of the firm and absorptive capacity accumulated through R & D, prior knowledge activities, appropriate knowledge structure, and the possession of skilled human capital stock. Firms with low levels of technological capabilities acquire technology from external sources in order to substitute for low technological capabilities while others do it to complement existing internal technological capacities.

A balance between the relative performance advantage of the new technology and the degree of operational novelty compared with existing technologies is crucial for successful implementation. The recipient must possess an accumulated advanced knowledge stock of research and design skills to absorb and extend emerging or progressing technologies. High codifiability of mature technologies lowers this requirement significantly. The model of innovation diffusion identifies relative advantage, compatibility, simplicity, trialability, and observability as positive attributes of an innovation. Appropriateness of technology refers to the fit between the technology and resources required for its optimal use and corporate strategies. The concept of appropriateness has become controversial in the context of international technology transfer, being seen as neocolonial because the construct can be interpreted as a policy that new, advanced technologies would be intended for use in developed economies, while older, less advanced, and less environmentally sustainable technologies would be appropriate for developing economies. In addition, such a perspective could impede catching up or “leapfrogging” by developing economies. A geographic mapping of TOT along technological life cycles has been challenged with the increasing number of R & D facilities located in developing economies.

The cost of technology transfer extends beyond the mere purchasing cost of technology for the recipient. The costs of technology search, evaluation, design and engineering skills, training, communication, installation, adaptation, problem diagnosing, integration, and learning incur in TOT. The degree of absorptive capacity and prior experience in TOT of the recipient are important factors of cost. Resources are needed for adaptation of the transferred technology to fit with the existing physical and knowledge systems. The technologies at emerging and progressing stages are at a flux, and frequent alterations cause high technical risks and more costs than the mature technologies with established design, functionality, safety conditions, and codified technical information available.

From a process perspective, the strategic, functional, and behavioral forms of technology transfer barriers hinder the transfer’s effectiveness. While smaller institutions lack the resources and capability acquisitions of new technologies, larger firms are hindered by complex bureaucracies, which reduce the flexibility for new technology adoptions and implementations. The lack of sufficient functional capabilities in operational, engineering, design, and development inhibit the effective absorption of the
transferred technology. Cultural dissonance, lack of communication, and the consequent information gap among interacting parties hinder effective integration.

Attitudinal barriers, such as the not-invented-here syndrome, result in behaviors that impede information flows critical for effective TOT into the organization. This syndrome is based on theory of social identity and has similarities with the groupthink phenomenon. Recent research identified preferences for external knowledge.

The elements of market, trade policy, legal and regulatory forms, and the national and regional innovation systems are the dimension of country context for organizational TOT. In the international context, a strong system of intellectual property protection accelerates TOT between countries and induces more innovations. The presence of strong national and sectoral innovation systems enhances the absorptive capacity of the recipient and the potential for realization of technology spillover benefits by domestic industries of the recipient economy. A moderate technology gap between the interacting economies is also favorable for a transfer’s effectiveness.

The development of technological capabilities through technology acquisition relates to the assimilation theory of development that differentiates accumulation through the investment of physical capital and human resources from the assimilation such as entrepreneurship, innovation, and learning. The accumulation is a necessity but far from sufficient for the assimilation process in technological development of the recipient. Technological capability development involves acquiring, assimilating, improving, and generating technologies and capitalizes on both potential and realized absorptive capacities by the strategic use of advanced skills and knowledge and the investment in learning through research and development for generating competitiveness.

**Concept Evolution**

Traditionally, TOT theories focused on deliberate and contractual arrangements between institutions such as universities or government R & D laboratories with industry. In the international context, TOT was typically “north to south” or “west to east,” mainly from headquarters to subsidiaries or from foreign multinationals to domestic small- and medium-size enterprises. Theoretically, they were part of developmental economics and international business management and of diffusion of innovation. Recently, with the increased pluralism of technology sources and globalizations and deeper understanding of the technology construct, the context has expanded and constructs were elaborated. In parallel, the types of mechanisms and participants in the transfer process have been expanded to address new concepts such as open innovation, social media, integration of technologies based on natural and life sciences, and Internet-based innovations.

**Importance**

As a practice-based, midrange theory and collection of empirical observations, the TOT framework has spurred a rich interplay between applied research and its application. The constructs and their interactions have been tested in a variety of contexts and fine-tuned conceptually and in terms of constructs measurements. The framework influenced scholarly research in the management of innovation, management of R & D, international management, and policy of science, technology, and innovation. Elements of the framework found its way into research of legal and management aspects of intellectual property rights and studies of university research and its commercialization. Another important aspect that is getting recent attention is the context of global outsourcing of knowledge.

The TOT framework has been driving relevant academic management curricula and training, from specific subjects in bachelor and master of business administration (MBA) degrees to certificates of proficiency and professional expertise. Its incorporation in technical and engineering curricula bring in “softer” skills, beyond technical understanding or operational expertise, to include managerial and organizational mechanisms and approaches, the role of culture, and the principles of absorptive capacity and organizational capabilities.

The penetration of the framework as embodying unique expertise into practice is global and associated with activities critical for the success of both modern enterprise and national innovation systems. The United Nations Industrial Development Organization (UNIDO), United Nations Children’s Fund (UNICEF), Organisation for Economic
Co-operation and Development (OECD), and the World Bank have published guiding manuals and reports. National policy is designed on the basis of expectations beyond the basic framework, to include spillovers, and revised when these do not materialize. Consulting firms advertise TOT as a practice for both clients and potential employees. There are offices of technology transfer and commercialization in universities, government laboratories, and government agencies around the world, with positional titles such as officer, manager, or director of technology transfer. There are numerous national and international associations, and TOT is bundled with best practice principles of the International Organization for Standardization (ISO).

Oscar Hauptman and Dilupa Jeewanie Nakandala

See also Innovation Diffusion; Patterns of Innovation; Stages of Innovation; Tacit Knowledge; Technological Discontinuities; Technology S-Curve

Further Readings


TRANSFORMATIONAL THEORY OF LEADERSHIP

Transformational leadership is about inspiring employees to perform beyond expectations. It consists of two major elements: transactional and transformational. Transactional leaders focus on using rewards and punishment to induce certain behaviors in followers. The transformational component focuses on inspiring followers to go beyond mere transactional exchanges and consists of four roles: idealized influence, inspirational motivation, intellectual stimulation, and individualized consideration. Research has shown these constructs to have good validity and reliability and has been positively related to organizational effectiveness and follower satisfaction. The following sections briefly discuss the heritage of the construct, describe the roles in more detail, present some of the relevant research, indicate where the research should go next, and trace important implications for management practice.

Fundamentals

In 1978, James McGregor Burns introduced the concept of transforming leadership in the arena of political science. He defined it as persuading others to act to achieve definite goals that were about the values and the motivations, the wants and needs of followers as well as their leaders. The alignment of leaders’ and followers’ values and motivations is an essential part of transforming leadership, because it is only when this condition is present that leaders can induce followers to rise above their own self-interest and work for the greater good. In other words, it is then that transforming leadership can take place.

In addition to the concept of transforming leadership, Burns also used the concept of transactional leadership that was based on exchanging valued items, which could be political, economic, or emotional. Unlike what has been posited in the later work of Bernard Bass and his colleagues, Burns...
believed that leaders were either transforming or transactional rather than both.

Burns's work attracted the attention not only of political science scholars but also those from the fields of management and leadership. The introduction of transforming leadership led to a rejuvenation of leadership research in management studies. One of the first management and leadership scholars to apply the idea of transformational leadership was Bass in his 1985 book *Leadership and Performance Beyond Expectations*.

Bass and his colleagues built a significant body of work around the identification of the key competencies that allow leaders to transform their followers and their business; they referred to this as the *full range leadership theory* (FRLT). The FRLT has two main components, namely, transactional and transformational leadership. Transactional leadership is about outlining what actions leaders expect their followers to take to achieve their goals. Here the leaders clarify the subordinates' roles and the tasks required for them to meet expectations; they are aware of what their followers need or want to be happy and ensure they know how they will be rewarded if goals are achieved. One can summarize this style as, “If you achieve X, I will give you Y.”

There are three behaviors that fall into the transactional leadership style. The first is *laissez-faire*, which is basically about avoiding leadership. The second is *management by exception*, which can be split into active and passive. *Passive management by exception* is when leaders wait for their subordinates to do something wrong and then tell them what has been done incorrectly. *Active management by exception* is when leaders actively monitor subordinates’ results and, in a timely manner, communicate and/or punish those failures with actions, such as fines, suspension, loss of the boss’s political support, or even loss of employment. The third transactional leadership behavior is *contingent reward*. This is when leaders communicate their expectations and then praise and reward subordinates for their successes.

Transformational leadership is about inspiring followers to achieve results and go beyond what is expected. This power comes from the “four Is.” The first *I* relates to *idealized influence*, which is when leaders behave as role models for their followers; induce admiration, trust, and respect; demonstrate high ethical standards; consider the needs of others above their own; share risks; and delegate tasks. The second *I* refers to *inspirational motivation*, where leaders provide meaning and challenge to their followers thereby motivating and inspiring them, stimulate team spirit, are enthusiastic and optimistic, and engage their followers when thinking about the future. The third *I* is for *intellectual stimulation*, which is when leaders stimulate innovation and creativity by questioning assumptions and looking at problems from different perspectives, encourage creativity, discuss mistakes privately rather than publicly, engage team members in finding creative solutions to problems, and encourage risk taking. The fourth *I* pertains to *individualized consideration*, whereby leaders coach and mentor their subordinates to help them meet their personal and organizational needs to achieve and grow. This is characterized by delegating tasks; creating new, challenging learning opportunities in a supportive climate; accepting individual and different needs for attention, encouragement, autonomy, and structure; and listening.

*Laissez-faire* management has been shown not to be effective. Bass and his colleagues have shown that contingent reward has been positively related to outcomes, while both types of management by exception were not. Transformational leadership behaviors were much more effective in achieving goals. The FRLT holds that at some point leaders will use all the behaviors described above, while effective leaders will use more contingent reward and transformational behaviors rather than the less effective ones (management by exception and laissez faire).

**Importance**

Overall, transformational leadership is measured using the Multifactor Leadership Questionnaire (MLQ). All the roles have been studied extensively and found to be valid and reliable. The research further shows that transformational, contingent reward, and active management leadership behaviors are positively correlated to leader outcomes, such as organizational effectiveness and follower satisfaction, whereas passive management by exception and laissez-faire behaviors are not.

The leadership role that has received the most attention is that of idealized influence or, as it was referred to by most researchers, charisma. While Max Weber was one of the first to mention the
concept, it was Robert House who stimulated the empirical research in this area. His theory examined how charismatic leaders influence their followers and the leaders’ traits. He stated that charisma had measurable components. Specifically, he proposed that charismatic leaders are able to make an emotional connection with their followers and thus persuade them to achieve their goals. In doing this is that leaders show confidence in their own abilities and those of their teams. They also set high expectations for everyone—theirself and their team—and project a belief that those expectations can be met.

Jay Conger and his colleagues proposed a three-step attributional model for charismatic leaders, in which they must evaluate what the followers’ needs are and assess the available resources to get their followers interested in what they have to say. They also have to provide an inspiring vision for their followers and goals that will help them all meet those objectives. Lastly, they must show they are confident that their vision is achievable in order to inspire followers to feel confident as well.

Researchers have found that charismatic leaders use verbal devices, such as metaphors, stories, or anecdotes, demonstrating moral conviction, showing they share the sentiments of the collective, setting high expectations for both themselves and their followers, and communicating confidence that their expectations can be met. Nonverbally, they clearly convey their emotional states, demonstrate passion, and use body and facial gestures and animated voices. These strategies help make the messages of charismatic leaders more memorable. Recently, John Antonakis and his colleagues showed that charismatic leadership can indeed be taught. The managers they studied were perceived as more effective after having followed active training in charismatic leadership behaviors. Based on the above research, scholars suggest that the research on transformational leadership should both refine the FRLT to reflect those elements that work and to add two elements that are missing.

First, in terms of refining the FRLT to reflect the elements that work, the Podsakoff transformational-transactive leadership model includes many of the same ideas as Bass’s but not active or passive management by exception and laissez-faire leadership styles. In other words, the elements proven not to be related to improving effectiveness have been left out.

Second, Antonakis identifies two important elements that are missing: an instrumental leadership factor and relevant dependent variables.

**Instrumental leadership.** For transformation to occur in business it is not enough to have emotional connections with people and to stimulate them intellectually. Leaders must also relate the strategic vision to organizational decisions that will help achieve their vision. For example, leaders must decide how to allocate budgets and human resources to conform to the strategy, what parts of the business may need to be divested, what acquisitions may need to be made, how to manage stakeholders, whether to pay out dividends or reinvest them into the business, how to convince shareholders, and so on. This is consistent with Marshall Sashkin’s visionary leadership theory, which overlaps substantially with the FRLT. Sashkin added the strategic functions leaders must also undertake, namely, those that enable them to translate their vision into goals and actions at all organizational levels in ways that will contribute to reaching the vision.

**Dependent variable.** While some research links transformational leadership positively to such outcomes as improved organizational effectiveness and follower satisfaction, this does not necessarily mean that a transformation at either the organizational and/or individual level has taken place. In that sense, at the organizational level, researchers should explore to what extent the transformational roles can help organizations move from being national to global players, shift from being product companies to becoming service providers, move from selling rubber boots to selling mobile phones (à la Nokia), move from mining coal to producing commodity chemicals to specializing in life sciences and performance materials (à la the Dutch company DSM), and so on. At the team level, one should explore how the transformational roles help a group of individuals become a coherent team, how a coherent team becomes a highly performing team, and how a highly performing team can maintain its performance even when its members are not physically co-located. And at the individual level, one should explore how the transformational roles help functional experts become general managers, and how general managers can acquire a global mind-set. In other words, it is time to test the theory on real transformations.
The implications of this theory are threefold. First, if leaders want their direct reports (or subordinates) to go beyond the call of duty, they need to inspire them. Second, in order to inspire direct reports, leaders need to use charisma, intellectual stimulation, and individual motivation and consideration. The good news is that while many people have been trained in motivational techniques, research now shows that leaders can also learn how to be more charismatic. Third, while these tools can help transform individuals, they are not sufficient for organizational transformations. In order for leaders to transform organizations, they will also need to exercise instrumental leadership. That is, they will need to use organizational resources, such as budget allocations, human resources deployment, and investment decisions, to create the organization necessary to attain the vision.

Robert Hooijberg and Nancy Lane

See also Behavioral Perspective of Strategic Human Resource Management; Charismatic Theory of Leadership; Organizational Structure and Design; Path-Goal Theory of Leadership; Strategy and Structure

Further Readings


TRANSNATIONAL MANAGEMENT

Christopher Bartlett and Sumantra Ghoshal described the emergence of a new corporate form—the transnational—in their widely acclaimed 1989 book, Managing Across Borders. Since then it has become one of the most prescribed configurations for multinational corporations (MNCs). The transnational corporation was offered as a new type of MNC that was simultaneously locally responsive, globally efficient, and innovative. Bartlett and Ghoshal suggested that MNCs needed to evolve beyond multinational, global, or international to transnational in order to address complex strategic and organizational challenges of the global marketplace. Their depiction of a transnational corporation illustrated that success in global strategy, in addition to creating and implementing an innovative strategy, is also a function of an organization’s ability to organize and manage, thereby, laying the foundation of transnational management as a concept. Hence, transnational management emphasized the ability to develop a common global approach to coordination and control across subsidiaries in order to link them with each other and the headquarters, for the seamless flow and transfer of people and knowledge across borders, cross-national learning, effective use of corporate philosophy, appropriate cultural values, and informal socialization.

Described “as a new management reality,” transnational management emerged as an important concept in international business because it extended the unidimensional space within which management of MNCs were often described, either as focusing upon cultural differences or being globally efficient,
for example. Transnational management recognized the increased complexity of the global environment within which managers operate and sought to make sense of the conflicting demands that they are faced with. It also expanded the scope of traditional management theory by exposing the simultaneity and multiplicity of global management activities, including capturing global scale efficiency, being aware of and responding to local differences, and cultivating a global learning capability for driving continuous innovation. Finally, the concept linked the success of global strategy to building organizational capability via effective management systems and processes.

In the remainder of this entry, a detailed discussion of transnational management is organized as follows. First, fundamentals of transnational management are presented, including a typology of various MNCs forms and their descriptions. Next an assessment of validity and impact of transnational management is offered. The degree to which it is supported by research and helps explain management theory and practice is also evaluated. Finally, implications for future research are outlined.

**Fundamentals**

Bartlett and Ghoshal conducted an in-depth study of nine MNCs from three countries operating in three industries. Using personal interviews and survey questionnaires, they formulated a typology of various MNCs forms and their descriptions. Next an assessment of validity and impact of transnational management is offered. The degree to which it is supported by research and helps explain management theory and practice is also evaluated. Finally, implications for future research are outlined.

Bartlett and Ghoshal relied upon two key determinants, including the need for firms to match their capabilities to the strategic demands of their businesses and existing organizational systems and processes. They argued that multinational companies build a strong local presence through sensitivity and responsiveness to national differences and are decentralized with distributed resources and delegated responsibilities. A global company, on the other hand, builds cost advantages through centralized global operations, and it is often structured as a centralized hub based upon group-oriented behavior, intense communication, and a complex system of personal interdependencies. They described an international company as a coordinated group of professional companies with sophisticated and control-driven management systems that exploit parent company knowledge and capabilities through worldwide diffusion and adaptation. These three types were presented as traditional organizations that varied on the basis of (a) configuration of assets and capabilities, (b) role of overseas operations, and (c) development and diffusion of knowledge. Specifically, a multinational was described as decentralized and nationally self-sufficient that allowed overseas operations the autonomy to adapt and exploit local opportunities, thus, develop and retain knowledge within each individual subsidiary. In contrast, a global company is globally scaled and centralized. Its overseas subsidiaries follow parent company practices and strategies and develop and retain knowledge at the headquarters level. International companies are both decentralized and centralized, adapt and leverage parent company competencies, and develop knowledge at the headquarters level with an emphasis on transferring it to subsidiaries.

Further, in 2004 Bartlett, Ghoshal, and Julian Birkinshaw argued that diverse, and often contradictory, forces were reshaping organizations and the managerial mind-set; they stated that the environmental forces “have collectively led to a new and complex set of challenges that require managers of MNCs to respond to three simultaneous yet often conflicting sets of external demands—the need for cross market integration, national responsiveness and worldwide learning” (p. 91). They concluded that organizations with a transnational structure and mind-set are most effective and efficient. As the fourth type of MNC in Bartlett and Ghoshal’s typology, the transnational seeks global competitiveness through multinational flexibility and worldwide learning capability. Its organizational characteristics include being dispersed, interdependent, and specialized, having differentiated contributions by national units to integrate worldwide operations and in developing knowledge jointly and sharing it worldwide.

Transnational management emphasizes a decentralized, bottom-up approach and shows strong commitment to genuine empowerment of employees. It eliminates traditional hierarchical authority and requires transformation of managerial roles at three critical levels, including operating managers, senior managers, and top executive managers. However, a close interplay among these roles is
critical to integration of knowledge and processes across the entire organization, including headquarters and subsidiaries. Three core processes characterize effective transnational management: (a) entrepreneurial process drives the externally focused ability of the organization to tap new markets, (b) integration process allows linking and leveraging of dispersed resources and capabilities, and (c) renewal process enhances the ability to challenge organizational beliefs and practices in order to revitalize its processes and systems. Entrepreneurial process requires operating managers to become aggressive entrepreneurs in order to create and pursue new opportunities and senior managers to serve as inspiring coaches in order to develop and support initiatives. In particular, top management executives need to become institutional leaders who can establish strategic mission and performance standards. They need to create the infrastructure and the contexts necessary for others to play the new roles demanded of them. In terms of integration process, operations managers manage operational interdependencies; senior managers link skills, knowledge, and resources; and top executives develop and embed values. Management tasks and roles for the renewal process include frontline managers sustaining bottom-up energy and commitment, senior managers building and maintaining organizational flexibility, and top management managing the tension between short-term performance and long-term ambitions. Given a diversity of the roles that each type of manager serves, they each possess distinct knowledge and skills. For example, operating managers ought to possess detailed operating knowledge and focus their energy on capitalizing on opportunities through motivation and clear objectives; senior managers have broad organizational experience who focus on developing people and relationships and teams. Finally, top-level leaders understand a company in its context, inspire confidence, and create an exciting, demanding work environment. In essence, well-coordinated processes, systems, communication, capabilities, and competencies are therefore necessary for effective transnational management.

Importance

Transnational management has served as an important practical concept in the field of international business and management. Scholars argue that it is both influential and extensive. Although founded upon recognition of complexity of the business environment, it has been able to reduce the complexity of MNCs into a manageable number of characteristics, thus, making it easier to understand the management of MNCs. The concept provided propositions for empirical testing necessary for theory building and extension. Subsequently, researchers have used it in predictive ways to classify and evaluate management practices of a variety of organizations in diverse contexts. However, studies have not found clear-cut support for transnational management (and the typology). Based upon a British and French sample, Mehdi Bousseba and G. Morgan argued that there are concrete problems in developing global managerial groups, which are at the heart of competitive advantage of transnational firms. Similarly, other studies have found that, despite a recognized strategic importance of transfer of organizational practices within MNCs in transnational management, these transfers are not always successful.

Many other limitations of transnational management have also been discussed. First, since it is based upon only nine case studies from three countries, its generalizability is highly questionable. Insights for adopting transnational management approach are nonsystematic and appear to be prescriptive in nature. Some scholars have even called it “impressionistic” and lacking in empirical grounding. Empirical testing of the concept in the past two decades has also suggested that there are many ways of becoming transnational, not all of which are adequately captured in the original concept, which appears to be universalistic in nature.

Following a fast-paced and persistent flow of globalization, the field of international business has grown significantly in the past two decades, leading to conceptualization of many new concepts and discussion of more complex issues. Although Bartlett and Ghoshal’s concept of transnational management has neither received much support nor refinement by other scholars, it has influenced research relating to the managerial and leadership mind-set. Hence, it still remains a much-cited concept.

Contemporary managers are increasingly faced with a complex and dynamic global environment.

Bartlett and Ghoshal’s transnational model provides useful insights and proposes a shift in the
thinking required to lead successfully by focusing upon learning and flexibility. Some scholars have used this as the foundation for the concept of global mind-set. Managers can employ the roadmap of the three core processes (including entrepreneurial, integration, and renewal) in order to revitalize their organizations. This is likely to address the many challenges that they face and help them tap existing opportunities more by designing effective structures and strategies.

Shaista E. Khilji

**See also** Cultural Attitudes in Multinational Corporations; GLOBE Model; Leadership Practices; Management (Education) as Practice; Organizational Structure and Design; Strategy and Structure

**Further Readings**


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**Triple Bottom Line**

Given the nature and focus of modern accounting, the financial bottom line is generally an inadequate (and often actively misleading) expression of the total value equation. The term was coined in 1994 by John Elkington, as a means of countering the narrower focus on the then-fashionable term *eco-efficiency*, which focused on the financial and environmental dimensions of performance. Triple bottom line (TBL) thinking, by contrast, extended both to social impacts and to the wider economic impact issues that are rarely captured in the traditional financial bottom line. In this entry, a brief overview is provided of both the initial theory and its subsequent evolution.

**Fundamentals**

The TBL approach was introduced in detail in Elkington’s *Cannibals with Forks* and has been further elaborated both in hundreds of company reports aligned with the Global Reporting Initiative (GRI) and in a growing number of books. It has been widely adopted in countries such as Australia in shaping policy in all levels of government. A linked phrase, “people, planet, profit,” alternatively “people, planet, prosperity” (3Ps), was also coined by Elkington in 1995—and subsequently adopted by Shell as the title of its first sustainability report in 1997.

In the early 1990s, the leading edge of management thinking in this space focused on *eco-efficiency*, a term advanced by the World Business Council on Sustainable Development. This focused on the money to be made or saved in the more efficient use of natural resources and in pollution reduction. The TBL approach both widened the financial dimension to consider a range of economic externalities and introduced the social dimension—which at the time was much less acceptable to business leaders, particularly in the United States.

In headlines, the TBL framework was designed to encourage business leaders to identify, value, invest in, account for, and manage three increasingly interlinked dimensions of value creation—and destruction. To take the 3P formulation, these were the following:

- People: Business is increasingly used to treating employees well (think human resources) and customers and consumers well (think customer...
relationship management or total quality management), but the human and social dimensions of wealth creation increasingly call for attention to human rights and intragenerational and intergenerational equity. A central insight is that to be sustainable, a business model, technology, or product would need to be viable in a world of 9 billion people by 2050.

- **Planet**: Issues such as stratospheric ozone depletion, climate change, and large-scale species loss signal the downsides of the dawn of the Anthropocene era, in which human activities shape the planet, for good and ill. Business is increasingly being held to account for such externalities.

- **Profit/prosperity**: The rules of capitalism, markets, and business require shareholder-owned companies to make a profit and build value. Here the central idea is that by protecting other forms of capital (e.g., human, social, cultural, natural) companies can, among other things, secure their license to operate and to innovate, reduce future liabilities, build brand value, and drive down costs.

As the 3Ps, this second phrase then became central to the sustainable development debate in countries like The Netherlands. It sparked debates about the double bottom line (combining social and financial performance, as in social enterprise) and, variously, quadruple and quintuple bottom lines, in which issues like ethics and governance were added in. More recently, it has inspired the work of companies like Puma, which aims to develop profit and loss accounting processes and statements for its environmental, social, and economic value added—or destroyed.

The TBL concept aims to help business people think through the question of how to make corporations more sustainable in the context of major emerging economic, social, and environmental challenges, among them corruption, human rights, and climate change. To date, sustainability factors have only very rarely affected capital availability, but understanding of the relevant linkages is likely to grow fairly rapidly. Among the institutions founded on TBL lines have been the Dow Jones Sustainability Indexes (DJSI), the Global Reporting Initiative (GRI), and Triple Bottom Line Investing (TBLI), which organizes major events on sustainable finance and investment.

Corporate sustainability is probably better understood not so much as the discipline by which companies ensure their own long-term survival—though that is clearly part of the equation—but as the field of thinking and practice by means of which companies and other business organizations work to extend the life expectancy of ecosystems (and the natural resources they provide), societies (and the cultures and communities that underpin commercial activity), and economies (that provide the governance, financial, and other market context for corporate competition and survival). By paying attention to such wider issues, it is often argued, companies are better placed to ensure that their own business models remain valid and adaptable.

**Importance**

As for the corporate sustainability agenda, recent decades have seen sustainability issues gradually being forced up through corporate hierarchies. They started very much on the fringes, being handled (if at all) by professionals in such areas as site security, public relations and legal affairs. Through the 1970s, as new techniques such as environmental impact assessment evolved, new groups of people became involved, among them project planners, process engineers, and site managers. Then, during the late 1980s, the spotlight opened out to illuminate new product development, design, marketing, and life cycle management. As the triple bottom line agenda of sustainable development spread through the 1990s, with an inevitable growth in the complexity and political impact of key issues, the agenda was driven up to top management and boards. In the next round, in addition to all those already involved, expect to see new ventures people, chief financial officers, investment bankers, and venture capitalists getting involved.

Over time, the agenda has opened out profoundly, increasingly embracing challenging issues such as transparency, corporate and global governance, human rights, bribery and corruption, and global poverty. The key text in this area has been 1987’s Brundtland Commission report, *Our Common Future*. Its definition of sustainable development is now widely accepted. It was brought into greater focus in 1994 with the introduction of the TBL concept, which has subsequently been widely adopted—for example, by the Global Reporting Initiative (GRI). The concept has also been adopted
by leading companies, most strikingly perhaps by Denmark’s Novo Nordisk, which used the TBL framework in its rechartering.

Work on implementing the TBL agenda has shown that there are many points at which it potentially engages with and influences business thinking, strategy, investment, and operations. For a closer insight into current practice, take a look at the websites of TBL-oriented organizations, such as the Global Reporting Initiative and the Dow Jones Sustainability Indexes. Meanwhile, the corporate work of organizations like SustainAbility and Volans have suggested that a potentially powerful way of approaching TBL-focused corporate change is to think in terms of brands, balance sheets, boards, and business models, or 4Bs.

This often starts with external challenges targeting brands, often led by activists, nongovernmental organizations (NGOs), and the media. Few things stimulate corporate action faster than threats to brand value, with the result that the TBL agenda crosses the world of brand management. Over time, corporate leaders are then encouraged to adapt their management, accounting, disclosure, communication, and external engagement strategies (balance sheets). Some companies can hold the challenge at this level, but increasingly, often the issues have a sufficiently intense political spin that they are forced up to boards, cross connecting with the world of corporate governance. If the pressures are sustained, presenting new forms of risk and opportunity, then we may see companies adapting their business models, as General Electric (already mentioned above as a long-term corporate survivor) has begun to do with its “ecomagination” strategy. This turn of the wheel brings us back to branding, a point underscored by the success of GE’s initiative (http://www.ecomagination.com).

The TBL agenda has spawned a broad range of management tools, ranging from auditing and reporting processes through to new thinking about how to blend the different dimensions of value creation. See, for example, the triple top line thinking of William McDonough or the blended thinking of Jed Emerson and others (at http://www.blended-value.org). In the end, however, there are few “drop-in” TBL solutions. And work is still in progress on development of new assessment methods, for example, by Puma, with its environmental profit and loss accounting method, designed as a stepping stone toward a full triple bottom line accounting.

At the same time, we see growing interest in integrated accounting and reporting across the TBL agenda, as advanced by the International Integrated Reporting Committee. Integration was always the ultimate goal of the TBL movement, but the challenge will be to ensure that the next generation of integrated accounting, reporting, and assurance techniques fully capture the material dimensions of multicapital, long-term wealth creation.

John Elkington

See also Corporate Social Responsibility; Cultural Intelligence; Leadership Practices; Organizational Learning; Participative Model of Decision Making; Stakeholder Theory; Strategies for Change; Transnational Management; Trust; Value Chain

Further Readings


TRUST

All organizations comprise people who work together to accomplish objectives. Since the mid-1990s, trust has become recognized as a fundamental building block of such working relationships both within organizations and between people, groups, and organizations themselves. Scholars in a variety of disciplines have considered the concept of trust as it relates to their respective fields. The history of trust within management research dates back arguably to the work of Morton Deutsch in the 1950s. This work was highly insightful and began to provide a foundation for thinking about the topic.
Subsequent work in management for many years was sporadic, with little in mainstream journals. By the 1980s, trust was frequently mentioned as being important to other issues, but then, attention would be turned to issues that were more tangible and easier to define. In 1995, Roger C. Mayer, James H. Davis, and F. David Schoorman defined trust as “the willingness of a party to be vulnerable to the actions of another party based on the expectation that the other will perform a particular action important to the trustor, irrespective of the ability to monitor or control that other party.” (p. 712). They went on to clarify that the definition applied to a relationship with a definable other party. The other party must be perceived to behave in ways that demonstrate conscious choices. Trust is not dichotomous, in that one either trusts or does not trust another party, but is a continuum from not being willing to be vulnerable to the focal party to being highly willing to be vulnerable to that party. This entry will next consider the antecedents of trust, its relationship with risk and risk taking, how it is different from cooperation, its multilevel nature as defined here, the evolution of the field’s view of trust, and finally applications of this approach to trust for practicing managers.

Fundamentals

There are several major factors that cause a party to trust another. They can be broadly categorized into three areas: factors about the trusting party (trustor), factors about the to-be-trusted party (trustee), and factors about the context or situation in which the relationship takes place. Julian B. Rotter is recognized as being among the first to carefully consider the general willingness to trust others as being an important issue. He published a 25-item scale of interpersonal trust in the late 1960s, which for years dominated how the field thought about trust. More recently, this has come to be commonly referred to in the management literature as the propensity to trust.

Three factors about the trustee have been found to determine a great deal of variance of how much a trustor will trust a given trustee or antecedents of trust: (a) ability, (b) benevolence, and (c) integrity. These collectively determine the perception of the trustee’s trustworthiness.

Ability is the capacity of the trustee to do things important to the trustor. It is task specific and situation specific, meaning that a given party could be perceived to have strong ability in one domain but in a somewhat different domain have somewhat weaker skills. The second factor that makes one perceived as trustworthy is benevolence, which is the perception that the trustee wants to do positive things for the trustor. It is more individualistic than a notion of being “benevolent toward all”; it is the perception that the trustee has the trustor’s interests at heart because of the relationship. The third factor that makes a trustee seem trustworthy is integrity. Integrity is the perception that the trustee follows a set of values the trustor finds acceptable. This does not mean that the trustee has the same set of values, as the value sets people have can vary in many dimensions. Rather, it means that the important values that matter to the issue at hand are sufficiently matched. In addition, a perception that the trustee has integrity requires the trustee to adhere to the professed values. It is not enough that the trustee merely claims to have a set of values, as a discrepancy between the party’s professed values and observed actions would decrease the perception that the trustee has integrity.

While propensity is relatively stable and resides within the trustor, akin to a personality trait, the factors of trustworthiness (i.e., ability, benevolence, and integrity) and trust itself exist within a context. As the context changes, so can the evaluations of these. For example, a person’s supervisor may be very effective at garnering resources for an employee’s projects and raises for the employee. A change in management above the supervisor’s level may bring a marked change in the organization’s politics and severely undercut the supervisor’s effectiveness at getting resources. While the supervisor’s inherent competencies do not change, the realities of the new political situation change the context such that the supervisor’s ability in the new situation is reduced. Thus, ability is context specific. Similar arguments can be made for the contextual specificity of benevolence and integrity.

Trust increases the likelihood that a party will take a risk in the relationship with the trustee. The nature of risk is that there is uncertainty about outcomes that will occur in a situation. The outcome may involve a loss of resources or not achieving a potential gain in resources that is being sought by the trusting party. Trust allows the trusting party to accept risk and engage in an action (e.g., sharing sensitive information) that allows a trustee’s influence to effect either loss or gain for the trusting party.

Trust is different from cooperation, because one can cooperate with a party who one does not
trust. Cooperation could be motivated by a power differential or by a lack of perceived options other than cooperating. For example, an employee may comply with his or her supervisor’s request for working overtime despite having made plans for after work that must be canceled. While the behavior is cooperative, it does not necessarily mean the employee trusts the supervisor. The cooperative act of staying late may be due to fear of reprisal from the supervisor.

Trust as described here is isomorphic, meaning that it is applicable across multiple levels of analysis: interpersonal, intergroup, and interorganizational. Two persons can trust one another; such is the foundation of a good interpersonal relationship. Likewise, two groups can trust one another, as can be seen in relationships between two departments that are in a position to compete for resources but opt to act in ways that protect one another’s interests. Organizations can trust one another; indeed some research has found this to be a key ingredient to the formation of a joint venture. In addition to these three examples that each involve a single level, cross-level trust involves mixes of these such as a top management team (i.e., a group) trusting a given employee to negotiate a relationship with another company or with a union.

Importance

Throughout this time period a variety of definitions of trust evolved. Each had strengths and weaknesses from a conceptual perspective. 1995 seemed to be a pivotal year for this topic, as three papers on trust were published in Academy of Management journals. Attention to trust as a topic of management research spiked sharply after that point, and has remained high to the writing of this entry. The same year this entry was written, a new journal was launched named for trust and focused specifically on publishing research in this rapidly growing area.

Several concerns with extant approaches were listed by Mayer, Davis, and Schoorman in the 1990s. Drawing on the insights of several authors over the previous decades, they pointed out a list of problems with prior approaches to trust. They noted that there were problems with the definition of trust. They showed that there was confusion in the literature between trust and its antecedents and outcomes. They demonstrated a lack of clarity in the relationship between trust and risk. They explained that a lack of specificity of trust referents was leading to ambiguities in levels of analysis. They also showed that most extant work did not consider both the trusting party and the party to be trusted. Accordingly, they developed a model that differentiated the antecedents and outcomes of trust from trust itself.

Viewing trust as a willingness to be vulnerable to another party has become the dominant approach in the field (based on citation counts in the major databases). This approach lays out important boundary conditions of the construct of trust. Trust has been described as an approach to dealing with risk in a relationship with other parties. Trust is more important in situations where the trusting party is at a greater level of risk. There is a well-established literature on judgment and decision making (JDM), which has for years studied how people make decisions about a variety of topics such as investments, health, and selling a business. Many conditions have been found to affect how people appraise risk in a situation and how they respond to it. An important boundary condition that delimits trust from the broader JDM literature is that it is defined to be within a relationship. Thus, while such expressions turn up repeatedly in common language, one does not “trust” the weather to be favorable on a given day, nor does one “trust” a machine to operate properly. Such use of the term trust would imply that the weather or a given machine in question makes conscious, intentional decisions about whether to honor the party’s trust or to defect on it. Since such intentional decisions are beyond the ability of the weather or a machine, these are more appropriately considered under the broader realm of judgment and decision making.

This model provides a useful tool for practicing managers to understand the major factors that lead to trust. This enables them to focus their efforts on practical means of garnering greater levels of trust from employees, peers, and their own managers. It is important for them to note that depending on the role the other person is in, how they evaluate the importance of ability, benevolence, and integrity is likely to vary. It is important to take the perspective of the other party and view one’s own trustworthiness factors through the eyes of the other person.

Roger C. Mayer
Two-Factor Theory (and Job Enrichment)

Few theories within the domain of management discourse have provoked more debate than The Motivation to Work, by Frederick Herzberg, Bernard Mausner, and Barbara Bloch Snyderman, published in 1959. The book created a furor that continues to this day. Its relevance to this encyclopedia lies in the fact that it challenges a popular conception that money motivates. This entry explains why the work remains contentious. As a first step, it explores the background context and offers an explanation of the theory itself and how its findings broke with the past. Next, the research method and its limitations are explored, followed by an assessment of the impact of the findings on other research and upon management thought. The conclusion assesses the implications for managers facing contemporary challenges in the modern context.

**Fundamentals**

Two-factor theory challenged a well-established motivational paradigm. It was predicated on the idea that a range of different stimuli contribute to employee job satisfaction and dissatisfaction. Stimuli could be arranged along a continuum. Typical factors included the working conditions, holidays, training and development opportunities, prospects for promotion, quality of the relationship with a supervisor or manager, recognition of achievement, the wage rate, and the correlation between effort and reward. The assumption was that the importance an individual assigned to each of the factors would have a different weighting, duration, and impact. Thus, at any given moment, the overall balance would tip in favor of the employee being either satisfied or dissatisfied. It was also theoretically possible for an individual to experience a neutral state in which positives cancelled out negatives. Herzberg’s results challenged the dominant assumptions of behaviorism and of rational economic man.

When The Motivation to Work was published, the ideas of Frederick W. Taylor, enshrined as “scientific management,” predominated. Taylorism emphasized the importance of scientifically analyzing the design and content of work, the measurement of performance, and the linking of reward to performance through piece rate systems. Clearly, any suggestion that the link between motivation and reward could be more tenuous than was previously believed challenged a wide range of vested academic and managerial interests.

**The Two Factors**

Herzberg’s two-factor theory was developed as a result of an experiment that explored the impact in terms of both frequency and duration of 14 factors on job satisfaction and dissatisfaction. The method
of data collection was based on interviews and the use of critical incident analysis. Respondents were required to recall incidents that were linked to each of the 14 factors and to recall what impact each factor had on the motivation to work.

The results clustered within two distinct categories, depending on whether job satisfaction or dissatisfaction was the focus of concern. First, sources of satisfaction included the nature of the work itself, a sense of achievement, recognition by a supervisor and colleagues, prospects of promotion, and the opportunity to assume more responsibility. These were defined as motivators. Second, respondents reported feelings of dissatisfaction when extrinsic factors, such as company policies or administration, were perceived to be lacking, technical or interpersonal supervision was poor, working conditions were inadequate, or the financial reward inappropriate. These were defined as hygiene factors. Thus, external rewards, if they were wrongly conceived, appeared to demotivate, and even if well conceived, their motivational value was limited.

Herzberg and his team went on to categorize the sources of satisfaction as motivators and those of dissatisfaction as hygiene factors. What distinguished the two was that the former generated energy from within, while the latter were external stimuli that induced either compliance or movement in a direction desired by management.

The ensuing article caused consternation. During the years that followed, a series of replication studies were undertaken. Those that deployed Herzberg’s methodology generated findings that showed consistency with the original results. Unfortunately, those who adopted alternative methods delivered less consistent findings. This raised doubts about both the reliability and the validity of the original work. Victor Vroom offered one of the most potent critiques. He suggested that any methodology involving recall could invoke ego defense mechanisms. This would prompt alignment of motivators with a respondent’s personal standing and achievement, while dissatisfaction would be assigned to factors beyond the respondent’s control. Einar Hardin argued that Herzberg’s results were flawed by poor respondent recall. Robert Opsahl and Marvin Dunnette claimed to be mystified by the assertion that money was more likely to act as a dissatisfier (hygiene factor).

Conclusions and Implications

Having formulated the two-factor theory, Herzberg and his team used the evidence of the existence of motivators to challenge the less humane aspects of the dominant ideologies of Taylorism and Fordism. Taylor had argued for work specialization and simplification as a means of improving productivity and rewarding fairly, but Henry Ford had gone a stage further. His aim was to produce a productive worker within a few hours of entering his factory. To achieve this, he used machines to de-skill work. By organizing machines in lines and eventually mechanizing the processes that linked the different activities, he developed assembly-line production, a push system that proved to be the key to 20th-century mass production and prosperity.

Between 1913 and 1955, productivity levels climbed exponentially. The standard of living in the United States and across the developed world mirrored the rise in productivity. Workers became consumers. They created levels of demand that only mass production could satisfy.

Unfortunately, the rise in wealth and productivity came at a price. That price was unrelenting, grinding, repetitive work, involving simple boring tasks repeated endlessly for shifts of 8 hours or more, 6 days a week. Workers rotated through shifts involving several weeks when work commenced in the morning then the early evening and then to nights for up to 50 weeks a year. In short, there was little dignity or mental stimulation to be found in work. High absenteeism, low productivity, and sabotage were some of the by-products of the Taylor and Fordist approaches.

Recognizing the appalling cost as well as the enormous benefits of mass production, Herzberg began to formulate the case for job enrichment. He concluded that rather than seeking to motivate employees through reward, organizations should aim to create intrinsic satisfaction in the work itself by designing in more task variety, more autonomy, and greater capacity to exercise judgment and responsibility. This involved adding some of the planning and evaluating duties normally undertaken by managers. The approach came to be known as orthodox job enrichment.

Herzberg also made a series of observations in relation to hygiene factors, three of which are of special note. First, people are made dissatisfied by a bad
environment, but they are seldom made satisfied by a good one. Second, the prevention of dissatisfaction is just as important as delivering motivation through job satisfaction, and, finally, hygiene factors operate independently of motivation factors. Employees may be highly motivated in their work while being dissatisfied with their work environment.

Persistent challenges to his work and findings over a period of a decade prompted Herzberg to make one last attempt to quell his critics. In 1968, he published “One More Time: How Do You Motivate Employees?” The article sold more than 1.2 million reprints, the largest volume of offprints ever achieved by the Harvard Business Review. Thereafter, he and his collaborators developed their ideas on job enrichment in a series of publications that included Job Enrichment Pays Off; Orthodox Job Enrichment: Measuring True Quality in Job Satisfaction; The Managerial Choice: To Be Efficient and to Be Human; and New Perspectives in the Will to Work.

Importance

Each of the above contributions provided impetus for the human relations and sociotechnical movements. It placed Herzberg in the human relations pantheon along with Elton Mayo, Kurt Lewin, Douglas McGregor, and others.

Herzberg’s later work provided the foundations for the job characteristics model developed by J. Richard Hackman and colleagues. The model posits that three critical psychological states must be fulfilled to deliver intrinsic work motivation. These are experienced meaningfulness, experienced responsibility, and knowledge of the results achieved. Creating these mind states demands that five core job characteristics be isolated. These are defined as the following:

Identity: the extent to which a job demands the completion of a “whole” or identifiable piece of work
Significance: the degree to which a job has a substantial impact on the lives of others
Variety: the degree of challenge the different elements of the job demand
Autonomy: the amount of discretion in scheduling work and determining how it should be done
Feedback: the extent to which the job holders can judge the effectiveness of their personal effort

The impact of this thinking prompted various sociotechnical initiatives. The most famous were the Saab and Volvo experiments in job enrichment and autonomous team working. Significant improvement in productivity and performance were reported. Other Danish research was less convincing. It highlighted the need for particular contingencies to be present, including company stability, employment continuity, and financial health as preconditions for success. The sociotechnical approach was further damaged when Volvo elected in 1992 to close its assembly plant in Kalmar. Despite the setbacks, these studies prompted research into goal setting, alternative methods of work scheduling, flexible working, and job sharing.

Total quality management (TQM) and just-in-time production (JIT) posed a serious challenge to complex sociotechnical system designs. The latter were increasingly seen as challenging and risky at a time when Japanese discipline and methods promised significant cost reduction with less risk. At the same time, the removal of overhead roles associated with maintenance, control, and programming activity enabled TQM and JIT advocates to assert that the remaining jobs were both enlarged and enriched. Eventually, the two views merged once it was seen that ideal TQM and JIT conditions were dependent upon good sociotechnical design. A view that was further bolstered by W. Edwards Deming’s “red bead” experiment pointed to the difficulties in setting bonuses that are tied to performance.

Many organizations across the world continue to reject Herzberg’s thesis. They adhere to a conviction that extrinsic reward needs to be linked to individual short-term performance. A joint study conducted in 2007 by the Wall Street Journal and Hay Consulting found that in 1965, the average American CEO was paid 24 times the average employee. By 2007, this had risen to 275 times. Research undertaken by Mike Mayo following the financial crash of 2007 found pay for the CEOs of Europe and America’s biggest banks rose by 36% in a year, an average of $10 million per head, despite the fact that revenues across the board rose by less than 3%. These studies are consistent with earlier findings conducted at the time of the Great Depression thereby establishing consistency over time.

To conclude, Herzberg’s theory raises important questions for the contemporary management
Type A Personality Theory

Type A personality theory holds that the incidence of heart disease in those classified as high-achievement workaholics—those who push themselves, dislike ambivalence, multitask, are controlling, feel the pressure of deadlines, and respond negatively to even minor time delays—is nearly twice as high as those not diagnosed with these symptoms. The theory was first developed in the 1950s by two San Francisco cardiologists, Drs. Meyer Friedman and Ray H. Rosenman, who began a series of studies using data from their clinical practice. They concluded that the accepted risk factors for heart disease (hypertension from smoking and high cholesterol) did not sufficiently account for its increase in the general population. Their findings have received mixed support from some researchers, but the theory continues to exert a strong influence on diagnosis and treatment. The implication for management practice is that left unaddressed, Type A individuals are at risk to place themselves and those around them under unnecessary stress and an increased risk of heart disease. This entry reviews the main findings and management implications of the theory.

**Fundamentals**

Type A personality traits include impatience, aggressiveness, chronic anger and hostility, a chronic sense of urgency, a preoccupation with deadlines,
ambitiousness, an excessive desire to achieve recognition and advancement, an excessively high need for control, high competitiveness, and a preoccupation with status. Friedman and Rosenman hypothesized a converse syndrome, Type B personality, which was not linked to heart disease, and simply consisted of opposite tendencies. They considered Type B personalities to lack an acute sense of urgency and to be more relaxed, patient, and easygoing. Their treatment regimens, aside from medication, revolved around lifestyle changes and included diet, exercise, relaxation techniques, and support groups for changing habitual stressful behaviors.

While their own research tended to confirm their hypothesized link between Type A personality and heart disease, the results of other researchers provided mixed results, and many studies did not support their findings or theory at all. Critique of their work appeared soon after their theory was first made and centered around methodology—biased samples, statistical inference of causality from correlational data, lack of adequate sample and control groups, and the weakness of psychological “Type” research in general. The fundamental objection to their findings is the difficulty in testing whether an emotional disorder predisposes an individual to mechanical blockage of blood supply to the heart, because such a study would have to be initiated before the onset of the disease in order to separate the degree to which the emotional disorder is a contributing cause or an ancillary effect of that disease. Researchers also believe that the discrepancies in the studies are due to the lack of standard criteria for defining Type A behavior. In addition, some researchers believe that the sweeping breadth of the concept is too general to be easily measured, making the research results too difficult to replicate. Consequently, recent research focuses on exploring more narrowly defined factors. Despite the mixed support for the hypothesis that personality type is associated with coronary heart disease, medical practitioners and the public have continued to use the terms Type A and Type B personalities. The resilience of the theory suggests that Friedman and Rosenman may have been on to something after all.

Their initial clinical intuition may have pointed to an underlying factor or trait that first appeared in the speculations of ancient Greek philosophical and medical thought. Empedocles (circa 450 BCE) proposed an early theory that the “cosmos” consisted of four primary elements. But it was Hippocrates (circa 400 BCE) who, observing individual behavior, noticed marked differences in temperament, and reasoned that Empedocles’s four “macrocosmic” elements—air, earth, fire, and water—were naturally expressed in four “microcosmic” individual temperaments—sanguine (hopeful), melancholic (sad), choleric (angry), and phlegmatic (slow moving). These ancient temperaments resemble recognizable clinical personality traits even today.

Some recent research supports the contention that at least one trait commonly attributed to the Type A personality—anger and hostility—can be a significant factor in coronary disease and increased workplace and life stress. Friedman and Rosenman may have intuitively initiated a line of contemporary research that lends support to the central importance of at least one of the four fundamental temperaments—the choleric temperament. Put into the more contemporary idiom of Type A personality theory, the individuals who are chronically angry or hostile engender an atmosphere of fear and stress around themselves.

The organizational and management implication of these findings are clear. Motivation by anger, hostility, and fear has its limitations. Frustration, aggression, anger, and hostility have their place to play in human life—but it all depends on the origins, the expression, and the context of these emotions. Anger and hostility can help mobilize others in support of a benevolent collective vision or mobilize them in the service of a malevolent collective digression. History is replete with examples of both. The significance is not that anger or hostility per se is helpful or unhelpful, it is the clinical “authenticity” and relevance of the emotions within a particular context. If the source of the anger is “real,” that is, directed at a realistic external target, it is authentic; but to the extent that the anger is the expression of an individual or collective pathology, it is disconnected from reality, and the individual, group, or organization risks being guided in a tangential, potentially disastrous direction. Those hard-driving executives with Type A personality traits who chronically inject their own anger and hostility into the immediate environment of their family, work groups, or organizations might increase short-term employee motivation and performance. But enhanced performance by this kind of “extrinsic motivation” is often short term. Dominance is not always the appropriate leadership style, and a subordinate’s compliance does not guarantee his commitment. Furthermore, research suggests that long-term job satisfaction, employee well-being, individual life
span, and ultimately individual and organizational health may be unintended casualties of unexamined or unmitigated Type A behavior.

Type A personality theory in its present form has been around for well over a half a century—and in its previous incarnation for well over two millennia. The robustness of the underlying constructs serves as a warning and a challenge for modern management. Thoughtful and self-aware managers can use the insights of Type A personality theory to pursue their goals while creating healthier conditions for themselves and others.

Jack Denfeld Wood

See also Authentic Leadership; Big-Five Personality Dimensions; Causal Attribution Theory; Compliance Theory; Groupthink; Locus of Control; Reinforcement Theory; Theory X and Theory Y

Further Readings


**TYPOLOGY OF ORGANIZATIONAL CULTURE**

Organizational culture is defined as the values, beliefs, norms, and systems of meaning or symbolism that are learned and come to be taken for granted among organizational members about how things are done and what are the right things to do. This entry describes the development of interest in the concept of organizational culture, the key dimensions of typologies of organizational culture, some of the issues that have been raised about how to study organizational culture, and some of the main concerns about research on the topic.

Fundamentals

Interest in the culture of organizations has gone through stages. A number of classic works were published in the 1950s and 1960s in fields like sociology and political science that described topics such as life on the factory floor or how cohesiveness in work groups is shaped by the nature of work and the characteristics of the organization. Interest in such ethnographic work subsided as attention turned to more systematic studies across organizations that used quantitative measures of concepts and statistical analysis to describe patterns and relationships that held across context. Interest in the study of organizational culture gained renewed attention in the early 1980s, however, when a number of books on management written first by consultants and later by academics reached best seller status and captured the attention of managers and a general readership, as well as professors. Such studies purported to offer explanations for why U.S. industries were struggling at the time when Japanese industries were growing and prospering. Across these publications, there were wide variations in the definitions offered of organizational culture and disagreements on
Typology of Organizational Culture

how and why understanding culture is important to business outcomes. Most studies of organizational culture endeavored to compare organizations with cultures that differed from each other (e.g., American firms to Japanese firms or successful American firms to less successful ones), and hence, they developed typologies or organizational profiles to distinguish organizations. In this body of literature, claims were often made that some kinds of organizational cultures were more productive or successful than others or that organizational culture had to be aligned with or consistent with the company environment and goals in order to be successful.

Through the development of this literature, many different typologies of organizational culture have been offered, with different names given to similar concepts by different authors. There are, though, some common themes about how organizations differ from each other that cut across this research. Perhaps of most interest in the literature is whether an organization’s culture can be said to be strong or weak. A strong culture is assumed to be one that pervades the organization and where most organizational members understand and buy into the organization’s values. In initial formulations, it was argued that having a strong culture was an essential element of organizational success. Later discussions, however, called attention to the difficulty organizations with strong cultures had adapting to and being willing to change as needed, leading to an effort to distinguish what about strong cultures was positive and what might have a dark side. Another major theme within the organizational culture literature is whether the culture of the organization gives preference to “hard” versus “soft” issues. Hard issues are defined as attention to the numbers, to the bottom line, and primarily to tasks. Soft issues are defined as concern for people, for hiring the right people, and fostering commitment and enthusiasm among organizational participants. William Ouchi’s book *Theory Z* provides a good example of this argument.

Early proponents of the focus on organizational culture argued that U.S. firms were differentiated more in their attention to people than they were in their attention to the bottom line. Other researchers argued that the ability to innovate and adapt to change was the most important characteristic of successful organizations, so organizations were differentiated in terms of their adaptability versus stability. Along the same lines, within this same context, a lot of attention has been given to what has been called “learning organizations,” or those that are able to get better over time, and both use existing knowledge among organizational members and build upon it. In some ways, a parallel literature on the characteristics of high-performance organizations is consistent with the research on organizational culture and especially with the effort to differentiate the characteristics of successful organizations from less successful ones.

One of the main critiques of the organizational culture literature, and especially of the attempts to develop typologies that presumed to characterize organizations and distinguish one from another, was that doing so did not sufficiently recognize that organizational cultures are complex; often differentiated across units, levels, and occupational groups; and that it may be a mischaracterization to assume that there is a unified culture in large, complex, and often global firms. Further, some argued that organizational culture, to the extent that it exists, may change as external circumstances change or as the skills, competencies, and internal composition of the firms change. In addition, some have argued that assumptions about the effects of organizational culture on organizational success were, on the one hand, manipulative and, on the other hand, naive to think that culture could so easily be managed or changed. Thus, the research literature on organizational culture has faced many of the same difficult conceptual and methodological issues that have been faced otherwise in fields that have tried to study culture, whether at the societal level, the organizational level, or the level of the group or team. Culture is an elusive concept because it is intended to describe something that is collective in concept but accessible only by studying what individuals do and what they understand. It is reflected in how people live their lives, but it is hidden from view even from the participants themselves. Culture, therefore, has to be interpreted as well as characterized or typified, and its meaning often depends on the standpoint and the purpose.

The major lesson managers should learn about typologies of organizational culture is that success depends on creating an environment that shapes the norms and behavior of organizational participants in ways that will serve the organization well as circumstances and competition change.

Nancy DiTomaso and Julia R. Eisenberg
See also High-Performance Work Systems; Meaning and Functions of Organizational Culture; Organizational Culture and Effectiveness; Organizational Culture Model; Organizational Culture Theory

Further Readings


“Unstructured” Decision Making

For the better part of the past century, an increasing amount of attention has been paid to understanding how managers make decisions. Yet much of the available knowledge has settled on decisions that are rather common and repeatable, even if they are not easy to tackle. Far less attention has been given to the decision making that is required when conditions are the exception and not the norm. These conditions are considered to be “unstructured” and demand decision-making processes of their own. At present, managers have access to an abundance of studies and analyses about methods and processes for making decisions in every facet of the organization—operations, finances, marketing, sales, research and development, production, human resources, and so on. Many of the decisions made in these areas on a day-to-day or even hour-to-hour basis are rather routine, including those for the most complicated tasks and at the highest levels. Decisions of this sort are, essentially, tactical; that is, the conditions are largely prescribed, and the requirements are largely understood. The real challenge, therefore, is to organize the most efficient and effective way to accomplish the task. So, when it comes to the actual decision making, managers can often rely on experience and known patterns of what works because the solutions already exist. But there are conditions in which the standard decision-making process and prevailing solutions are unsuitable. In these conditions, managers must go about developing a process for decision making that involves learning more about the situation, its elements and requirements, what objectives are relevant, and the results they hope to achieve. This entry provides an overview of research based on empirical observations of decision making in organizations and interviews with managers that was developed into a comprehensive model for “unstructured” decision making.

Fundamentals

Decisions are a primary responsibility of management. And the higher up managers are in the organizational hierarchy, the weightier, strategic, and far reaching are their decisions. One of the earliest dissections of decision making applied specifically to management was offered by Peter Drucker in the 1950s. He submitted that managerial decision making generally involves five general phases: definition of the problem, analysis of the problem, development of possible solutions, selection of a perceived best solution, and translation of the decision into action. But, Drucker cautioned, the entire process and its results can be thrown off because what is often identified as the problem is actually a symptom rather than the underlying issue. He also advised that, among other things, even the most prepared managers are likely to face realities in which making the right decisions is less dependent on accumulated experience than on systematic analysis. Taken to an extension, this suggests that strategic decisions are, by and large, unstructured.
Within the next 20 years, an increasing amount of research focused on managerial decision making, including a portion dedicated to the concept that strategic decisions are, by nature, generally unstructured. In a study led by Henry Mintzberg, researchers analyzed 25 strategic decision-making processes in organizations and proposed that a framework does exist for unstructured decision making. Unlike in structured decision environments, in which an alternative is given, but its consequences are not definitive, unstructured decision environments involve conditions in which neither an alternative nor its consequences are easily established. Put another way, there is a distinction between uncertainty and ambiguity, with unstructured decisions falling into the latter category, distinguished by their unconventional and changing conditions, intricate steps, indeterminable boundaries for factors such as time, pressures both internal and external, and how little is understood at the outset about the situation and its possible solutions.

But the Mintzberg study is even more significant because it offers a model for categorizing decisions according to the specific stimulus for decision making, the solutions, and the decision-making process used to arrive at those decisions. According to the study, decision making is stimulated not only by some event but also by its perceived magnitude across a continuum. On one end of the continuum is the opportunity decision, which is initiated as a means to improving an already stable condition or comfortable position. On the other end is the crisis decision, which is initiated in response to conditions that have amounted to and reached a tipping point. In between these extremes lies the problem decision. Further, depending on the timing of managerial action and resources devoted to the condition, there may also be opportunity-problem decisions and problem-crisis decisions. Yet in whichever category the decision is placed, the researchers propose that a solution can then be classified in one of four ways: “given” (fully developed at the start of the process), “ready-made” (developed organically during the process), “custom-made” (developed specifically for the decision), or a combination of “ready-made” and “custom-made,” in which a ready-made solution is modified and adapted for the situation. For all of this, however, it may be that the decision-making process itself has the most to recommend about strategic, unstructured decisions.

Mintzberg and his colleagues suggest that the decision-making process comprises an identification phase, developmental phase, and selection phase:

**Identification.** The identification phase includes two routines: recognition of an opportunity, problem, or crisis that requires a decision be made; and diagnosis of the stimuli and relationships associated with the situation. It is typical that both opportunity and crisis decisions are set off by a single stimulus, whereas problem decisions are evoked by multiple stimuli. Any stimulus originates either inside the organization or outside of it, but it must individually or in concert with other stimuli reach a threshold level before decision makers recognize that they face an unfamiliar situation. Once they accept this reality, they can then diagnose the situation by drawing on existing information and collecting new information. The information gathering may be accomplished through formal or informal means and, in either case, is the beginning of the decision-making process.

**Development.** The developmental phase entails using a search routine, in which different types of methodologies may be used to identify ready-made solutions to the situation, and a design routine, in which a solution is developed through innovation. This phase also often requires a decision be rendered in light of associated decisions at several points along the way. In the search routine, solutions may come from institutional memory within the organization, unsolicited outside sources, specifically informed outside sources, and direct attention to finding a solution by conducting an environmental scan. In the design routine, custom-made and modified solutions are developed, though often in small amounts; both types of solutions can be expensive and in terms of time, money, and labor. Decision makers often choose the search routine over the design routine because the trade-off in costs is smaller.

**Selection.** Development of solutions is tightly bound to the selection phase, the stage in the decision-making process where an ultimate decision is achieved. But because so many factors may need to be considered at this point, the selection phase may inevitably include several steps of investigation of solution alternatives, any of which may be based on
a combination of judgment, bargaining, and analysis. Throughout all of this, there can be natural and human factors—expected or not—that interrupt or constrain the process and cause the decision makers to return to the developmental phase. At a point, however, an appropriate solution is certain to emerge and become available for authorization by the respective level of management. To arrive at a solution, decision makers employ a pattern in which they generally filter the range of available alternatives so that they have a manageable amount and reasonable options to work from (“screening”), mine these options and select a plan of action (“evaluation-choice”), and, finally, gain endorsement from higher levels within the organizational hierarchy (authorization).

The above general model, Mintzberg and his colleagues determined, could serve seven types of path configuration, each dependent on the solutions and factors developed earlier on in the decision-making process. The different types of path configurations range from a “simple impasse,” such as when a policy proposal is considered several times over and rejected on each occasion, to a complex matter that stems from changing dimensions in virtually every facet of the organization, situation, and environment.

Importance

While the Mintzberg-led study was not alone at the time in an aim to sketch a framework for “unstructured” decision making, it is generally considered to be high among the most comprehensive and classic analyses of the subject. The researchers make a decided and important reference to other studies that suggest the human element must be accounted for as underlying the stresses and strains of the decision-making process. In the interim, and despite all manner of studies concentrated on decision-making frameworks and matrices, a considerable amount of research from various areas of psychology and, increasingly, behavioral economics indicates that people generally have a deficient understanding of the policies and procedures they use in accomplishing decisions. Moreover, the research often demonstrates that people’s thoughts and actions are usually more irrational than conventional wisdom would lead anyone to believe.

Whether at the individual, group, or organizational level, people have a natural tendency to frame and describe decision problems and alternative solutions in ways that are personally beneficial and that engage selective memory. They basically employ cognitive biases—mental actions based on knowledge and experience—as a means to managing the typical overflows of information they encounter. From a behavioral perspective, this might be expressed in a range of actions such as automatically rejecting new information in favor of maintaining the status quo (the so-called Semmelweis reflex) or complacently accepting information that supports a prior assertion. It may be expected that these and similar biases will arise with greater intensity in unstructured decision-making situations than in structured ones.

Another aspect to consider is to what extent cultural perspectives about decision making play a role. For example, the Japanese style of decision making bears little resemblance to the Western style. The Japanese decision-making process involves several cycles of understanding, review, and comment by managers at various levels; also, unlike throughout much of the Western world, the Japanese regard management as an organ of the enterprise and not master of it. It is a time-consuming approach, especially from the Western perspective. But it is an approach that inevitably concentrates decision making on the larger, strategic issues rather than the smaller, tactical ones.

Ultimately, a decision is a judgment of alternatives. This is a risk-taking venture and, thus, requires that hypotheses about a situation be developed and tested, with facts then determined by relevant criteria. It also then requires feedback mechanisms, which are built from available information as well as exposure to the realities of the situation. This is all the more imperative considering that managements are responsible for putting knowledge to work throughout an organization—and that includes how to put people with different skills and knowledge together to achieve common goals. All of this may be amplified in situations that are perceived to be extraordinary and without existing stepwise procedures. But, as in any decision-making process, what is of central importance is an understanding of the basic problem and management’s orientation toward action around it.

Lee H. Igel
See also Decision-Making Styles; Intuitive Decision Making; Managerial Decision Biases; Needs Hierarchy; Strategic Decision Making

Further Readings

Upper-Echelons Theory

The upper-echelons theory (also referred to as “top management team” theory) focuses on a firm’s top executives. They include chairman, chief executive officer, heads of business divisions, and other general managers. Upper-echelon members collectively represent the most vital human capital of the firm. The top management team can be a source of competitive advantage of the firm and a key determinant of the firm’s financial and nonfinancial performance. Firms such as General Electric (GE), Federal Express (FedEx), and Walt Disney are admired in the business press because their top management teams are judged to be superior in quality. Along the same lines, when firms fail, as Enron did in 2001, the top management team is held responsible. The theory focuses on two interrelated questions: Why do the top management teams do what they do—in terms of actions, decisions, and choices? What are the consequences of what the team does to the organization as a whole? The theory looks at the top management team as a whole rather than at individuals within the team. A general argument for treating the whole team as a unit of analysis is that it would be more productive in explaining what firms do and their performance. The following sections elaborate upon the theory, its validity, and its limitations.

Fundamentals

Chester Barnard wrote the seminal book on the functions of the executive in 1938 and pushed top executives to the front and center of management theory. Even though the environment in which the firm resides constrains its top executives from doing certain things, powerful top executives can overcome these constraints and assert their choices. The Harvard Business School, pursuing an emphasis on top executives, has shown that top executives’ values, beliefs, and personal preferences play a role in what they do. When presented with the same situation, different executives may notice different aspects of the situation and act accordingly. The interpretation of the situation by the executive is shaped by several characteristics such as functional background, ethnic background, and nationality. As Donald Hambrick and Phyllis Mason put it in a seminal paper that crystallized the upper-echelons theory, an organization is a reflection of its top managers. And what the organization does and performance of the organization may be attributed to the upper echelons. The theory also has intellectual roots in the Carnegie school: It argues that executives, as human beings, have limitations—they engage in a rather limited search for solutions, cope with information overload, and deal with organizational politics—and, therefore, executives’ behaviors may not be that rational. This is in sharp contrast to the neoclassic approach that assumes that organizations act like machines, act rationally, and make decisions to optimize or maximize.

Identifying Top Management Team Members

Members of the upper echelon are the most powerful individuals in the firm, have vast networks of relationships within and outside the firm, and often have celebrity status. They perform the boundary-spanning tasks for the firm by connecting the firm to its environment.
There are two approaches to identifying the top management team members. A more inclusive approach, based on the titles and formal positions, considers the chairman of the board of directors, chief executive officer, president, chief financial officer, and other senior executives as top management team members. An alternative approach starts with the specific decision that is under consideration, such as going global, and includes the top executives that are directly involved in the decision (e.g., the chief executive officer, senior marketing executive, senior operations executive) and excludes the others. This approach suggests that subteams exist within a top management team and the particular executives involved and the number of executives engaged will differ depending on the decision to be made. For this reason, the former approach is relatively more convenient.

**Top Management Team Characteristics**

An executive’s construction of reality may not correspond to the reality as construed by other executives or to an “objective” reality. What the executive sees or does not see is determined by a variety of attributes:

*Background characteristics.* The demographic characteristics (e.g., average age of the top management team) affect its actions (e.g., a decision to diversify into a risky business) and firm outcomes (e.g., growth of the firm). The background characteristics are simple to work with, but it is difficult to identify and interpret the mechanisms through which these characteristics move the top management teams to act in certain ways and not others. Therefore, the relationship between top management team’s background characteristics and its actions and outcomes of these actions is not obvious and remains a black box. Notwithstanding the above noted challenge, several background characteristics of top management teams (e.g., educational and functional background of the executives and the duration for which executives have been employed with a firm and within an industry) are found to be reliable predictors of how the team will act and what the outcomes of these actions will be.

*Process-related characteristics.* In contrast to the top management team’s background characteristics, a number of team process-related characteristics attempt to describe the way the team members relate to one another (e.g., collaborate or compete), the way the team members share information in arriving at a decision, the frequency with which they communicate with one another, and conflicts between members at either a personal level or on account of political tensions between different parts of the firm. These process-related characteristics collectively capture how the team functions. The assumption here is that certain background characteristics determine the way the team functions, and this, in turn, explains the team’s actions, the speed with which the team acts, and the consequences of these actions.

**Roles of Other Variables**

Upper-echelons theory rests on two key assumptions: The theory assumes that the top executives of a firm all act as a team. In order for the assumption to hold, team members must be behaviorally integrated—that is, all members are engaged and collectively work toward the common good of the firm. In the absence of such behavioral integration, team members’ characteristics may not explain what the team does, why it does what it does, and also consequences of its actions for the firm as a whole.

The second assumption is that the top management team has alternatives to work with and choose from within this array of alternatives. However, not all situations present top executives with alternatives to choose from—some situations may present more choices than others. Accordingly, top executives may not have much discretion in all situations. Recent writings on the theory of upper echelons suggest that managerial discretion may be relatively high:

- In the case of activities that are complex and activities where there is a high degree of uncertainty or opaqueness with respect to execution and outcomes
- In firms that are entrepreneurial (vs. bureaucratic), have a ready disposition to change and adapt (vs. maintain status quo), or have abundant resources (vs. meager resources); likewise, demands placed by various stakeholders (e.g., owners and the society at large) in the firm to meet their expectation may impact the managerial discretion of the top management team.
In industries that are dynamic, growing, and subject to rapid changes and innovations (vs. industries that are stable, stagnant, and subject to minimal innovation) and in which there is room for differentiation (vs. commoditization)

In the final analysis, how much managerial discretion there is and how many alternatives top executives have to choose from in a given situation is up to the individual’s entrepreneurial orientation. An executive who thinks and acts like an entrepreneur is opportunity-driven (seeks out opportunities) rather than resource-driven (feels constrained by the resource situation), and tends to “discover” alternatives even when none seem present.

In sum, managerial discretion acts as a third variable in that it tends to enhance or diminish the relationship between top management team characteristics and what actions they take and the consequences of their actions for the firm.

**Importance**

The seminal work by Hambrick and Mason in 1984 offered a big impetus to the study of the role played by a firm’s top executives. Their work has spawned a significant spurt of research on top management teams not only in the field of management but also in adjacent fields, such as psychology and sociology. According to Web of Science index, there were over one thousand citations of their work at the time this entry was written. This high and growing citation figure demonstrates the continuing interest in upper echelons—the theory and its significance to practice. Chief executive officers, such as Henry Ford, Sam Walton, Bill Gates, and Steve Jobs are recognized for their leadership and contributions to their industries, the global economy, and the society at large. They receive much attention in management research and in the business press. Their decisions and actions have the power to change the world.

Upper-echelons theory has been tested in a wide range of situations in which top management teams play vital roles. The catalog of studies is thick: Studies have tested the theory with respect to growth strategies and growth rates of firms, adaptation of firms to major threats (such as the threats posed to the tobacco companies by the Surgeon General’s warning about smoking and cancer), changes in corporate strategy, strategic process, propensity to take risks, decisions to go global, and the adoption of technological and administrative innovations, to mention only a few. The upper-echelons theory also has been tested in both large and small corporations and in both established businesses and new ventures. The relatively consistent results speak to the overall robustness of the theory and its relevance in a wide range of situations.

One limitation, however, is that the theory has been tested mostly in the context of U.S. firms or on executives within just one country such as the United Kingdom. Top executives are products of their environment; they are groomed by the society at large, culture, and national systems, such as the educational system. Some national systems produce a relatively homogeneous pool of top executives, whereas other systems may produce a relatively heterogeneous pool. The upper-echelons theory relies on having a relatively diverse pool of executives within the top management team. Absent a supply of a diverse pool of executives, the impact of top management teams on their respective firms’ actions and performance may be weak.

From the standpoint of management practice, upper-echelons theory and its findings offer modern managers several useful guidelines. Managers must match top management teams and organization strategies: Different teams may be effective in formulating and executing different types of strategies. For example, top management teams that are dominated by executives with experience in marketing and in research and development may very aptly pursue an innovation-based strategy. In contrast to that, teams that are dominated by executives with engineering and finance background may be appropriate to pursue a defensive strategy. When initiating major strategic changes, executives must include appropriate changes in the executive suite among the portfolio of changes. Since different executives may be effective in different contexts—industry and organization contexts—hiring top executives from a different context, specifically a different industry, could cut both ways. It all depends on whether the new hire “fits” in the new situation.

**See also** Core Competence; Organizational Demography; Organizational Structure and Design; Strategy and Structure
Further Readings


VALUE CHAIN

The value chain is a theory of the firm: a description and explanation of how business firms make profits by producing and trading goods and services. It also serves as an analytical tool managers can use to choose and organize their firms’ activities in order to gain and sustain advantage over competitors—to maximize profits. The central idea of the value chain is that by processing inputs, such as raw materials, into end products that they sell, business firms create value for their customers either in the form of low prices (like Tata Cars of India) or some other feature such as high-product quality for which customers are willing to pay a premium (such as Mercedes-Benz). If the customers’ willingness to pay for the firm’s goods or services exceeds its cost of providing them, the firm makes a profit. The value chain consists of a sequence of primary activities involved in converting inputs into outputs as well as support activities such as research and development and human resource management. By optimizing each activity either by lowering its costs or by enhancing its contribution to other qualities valued by customers—so that each activity adds value to the final product—managers strive to outperform their firms’ competitors and thus to maximize profits. This entry starts with a brief description of the concepts of economic value and value creation. It then explains the idea of a firm (and an industry) as a value chain and identifies the activities of which the chain consists, illustrated with examples. The theory’s contribution to the theory of the firm is also explained, as is its managerial application in creating and sustaining competitive advantage for firms. The limitations of value chain are discussed next, followed by a description of further developments and offshoots of the theory. The theory’s importance and relevance to managerial practice is then assessed. Finally, further reading on the value chain is suggested.

Fundamentals

The purpose of business firms is to create maximum economic value (profit) for their owners through producing and trading goods and services. But in order to create value for shareholders, firms must first create value for their customers. This happens when customers perceive the product or service they purchase more valuable than the price they pay for it—such as when they walk out of the store with their purchase, thinking “this was a good deal.” But having customers willing to pay for a company’s products is not enough by itself to create value for shareholders. The cost of producing and trading goods and services must also be lower than the price customers are willing to pay. So the fundamental task of a firm’s managers is to make the gap between what customers are willing to pay (price) and cost of providing products as wide as possible.

Widening the gap between customers’ willingness to pay and the firm’s costs can be achieved in two basic ways: lowering costs and increasing customers’ willingness to pay by enhancing the quality of products and services or some other factor (such as customer service) so that a higher price can be obtained. Examples of both of these can be found in the airline
industry. This is how the value chain theory can be applied: It shows managers how to tailor all of the firm’s activities systematically to either lower costs or to enhance customers’ willingness to pay. Southwest Airlines and Ryanair are good examples of lowering costs in all of their activities from ticket purchase to baggage handling to onboard service and thus creating value for their customers in the form of low prices. A regional Canadian carrier, Toronto-based Porter Airlines, is an example of increasing the customers’ willingness to pay through its activities. Porter has done it by offering convenience (operating an airport next to downtown) and added services (a comfortable lounge for all passengers, complimentary alcoholic beverages on board, etc.).

**Primary Activities**

The value creation chain of a firm consists of the following primary activities:

- Inbound logistics
- Operations
- Outbound logistics
- Marketing and sales
- After-sales service

The personal computer manufacturer Dell is an example of how a company is able to successfully lower costs or enhance customer willingness to pay, or both, in each of these activities. Based on the Harvard Business School case “Matching Dell,” the following discussion describes Dell’s value creation activities when it was the unrivaled leader in the personal computer (PC) industry in the mid-to-late 1990s. The fundamental characteristic of Dell’s business model was direct distribution. In contrast to competitors, it did not use any retailers as middlemen; all PCs were manufactured to order and shipped directly to customers.

In its **inbound logistics**, Dell closely coordinated with their component suppliers by sharing information to help suppliers to become more efficient and by encouraging suppliers to locate near Dell’s manufacturing plants, in order to reduce shipping costs. More importantly, the co-location shortened the time to deliver parts. Dell had its parts delivered just-in-time (JIT)—within 90 minutes of order.

Dell increased the efficiency of its **operations** by assembling PCs only to order: No assembly took place until an order was received. This meant that Dell held no finished goods inventory—a significant cost reduction. Building PCs to order and using a JIT component delivery required only very limited raw materials or work-in-progress inventories as well, which was particularly important in reducing costs as PC component prices were decreasing rapidly. Dell increased customers’ willingness to pay by allowing them to “customize” their PCs from a wide range of choices and by installing customers’ proprietary software upon request. (Knowledgeable customers who appreciated this were targeted explicitly).

The costs of **outbound logistics** at Dell were reduced by shipping directly to customers—no warehousing was needed. Components, such as monitors, that were sourced from outside suppliers never passed through Dell’s facilities but were shipped directly to customers. This approach worked well with Dell’s knowledgeable customers who did not need to go to a retail store to see PCs and to get information from a sales clerk—and it saved time and money for them and for Dell.

**Marketing and sales**—the starting point of the value chain for Dell—also differed from what was typical in the industry. Instead of selling PCs to distributors and retailers, Dell took orders directly from the end customers (mostly businesses and government departments but also home users and educational institutions). Not having an outside sales and distribution channel—which Dell’s knowledgeable customers did not need—reduced Dell’s costs significantly. Dell employed a large outside sales force that worked in the field, obtaining valuable information about customers’ needs and thus helping forecast and find ways of enhancing customers’ willingness to pay. Inside sales people at call centers helped customers place orders, but increasingly, ordering was done online, further reducing costs.

Dell offered **after-sales service** in many ways. Technical support was available through a 24-hour hotline and through tens of thousands of pages of online information. Most problems were solved over the phone and by using diagnostic software installed in all Dell PCs. For problems requiring a site visit, Dell contracted the services of outside companies. In essence, Dell was offering after-sale service comparable to retailers but at lower cost and typically much faster.
Support Activities

The above primary value chain activities are facilitated by support activities that enable further reduction of costs or help enhance customers’ willingness to pay. Michael Porter identified four such activities:

- Firm infrastructure
- Human resource management
- Technological development
- Procurement

Firm infrastructure refers to things such as organizational structure (e.g., few management layers to reduce costs or to enhance customer responsiveness) and various management systems (e.g., planning, accounting, information systems) for lowering costs and/or increasing customer willingness to pay. Dell’s infrastructure included hiring experienced managers from other companies to help the transition from a small business Michael Dell started in his college dorm room to the industry leader Dell had become by the mid-1990s. These managers introduced formal control systems and monitored Dell’s costs and performance systematically. The finance function, also part of firm infrastructure, was an important aspect of lowering costs for Dell. Dell did not pay its suppliers until it received money from its customers; therefore, the company did not have to bear the normal costs of financing. In essence, customers were financing Dell.

There is no specific information available about human resource management practices or technological development at Dell. However, companies use the human resource management function to lower costs and/or enhance customer willingness to pay by devising effective hiring, training, motivation, and compensation practices. Consider Google’s practices of using small teams to enhance speed and creativity and providing “80–20” work-fun time—designed to boost innovation for products that attract more end users and, thus, customers. Similarly, technological development can facilitate lowering costs or introducing new products with attractive new features that garner premium prices. An example of the former is Laitram limited liability company, a New Orleans-based global manufacturer of industrial equipment that was founded in the 1940s on the invention of a shrimp-peeling machine that revolutionized the shrimp processing industry. An example of the latter is Apple, Incorporated, which has successfully introduced several new products, from MacBooks to iPads, for which customers are willing to pay a premium.

The last support activity, procurement, can play a significant role in lowering a company’s costs or enhancing the quality of its products. This involves sourcing lowest cost raw materials or suppliers that offer the highest quality and monitoring suppliers’ performance. Dell achieved cost savings in its procurement function by reducing its number of suppliers from 250 to 50 and working closely with them to help lower their costs.

While the focus here has been on the value chain within firms, it should be noted that entire industries can be conceptualized as value chains. Consider, for example, the furniture industry. The industry value chain starts with the production of raw materials, such as wood. Manufacturers design furniture, source the raw materials, and construct the furniture. Some manufacturers may be involved in distributing and selling their products, whereas others are not. By analyzing the industry value chain, furniture companies can determine in which activities they can lower costs or enhance customer willingness to pay more than their competitors do and focus on those activities. For example, the global furniture retailer IKEA does not manufacture any furniture but maximizes its margins by designing, distributing, and selling it.

Evolution

The value chain is a relatively young theory: It was introduced by Michael Porter of Harvard Business School in his book *Competitive Advantage* in 1985. Porter first developed a theory of competitive strategy, wanting to contribute to the fledgling field of strategic management. Drawing from industrial organization economics (which analyzes structures of industries and predicts their evolution), Porter argued that firms can gain advantage over their competitors by finding positions (either through lower costs or other differentiation from competitors) in the industry that are sheltered from the competitive forces: the threat of new entrants, the bargaining power of suppliers and buyers, competitive rivalry, and the threat of substitute products. For example, a firm such as Nike has positional advantage through its strong brand name. The brand name protects
Nike not only against the threat of new entrants in the athletic shoe and apparel industry but also against the bargaining power of its customers and suppliers and against its existing competitors. (There are no real substitutes for athletic shoes.)

This theory of competitive advantage being based on position was criticized as too static and not accounting for the dynamic nature of competition among firms. In other words, it did not explain how firms gain and sustain their position amid the competitive forces that are trying to counteract the firms’ efforts. In response to the criticism, Porter developed the value chain as a more dynamic framework and a tool for analyzing how firms can identify, develop, and perform activities in each stage of the chain in order to gain a sustainable competitive position, based on either lower costs than competitors or on some way of differentiating from them.

The value chain theory has remained unchanged in its fundamentals, but extensions, such as value shops and customer participation in value creation, as discussed below, have been added.

**Importance**

The value chain theory has generated substantial empirical research, particularly company-specific case studies. The breadth of the theory and its complex variables has delimited its statistical validation and therefore its ability to predict firms’ behavior. However, case study researchers describe and explain behavior of firms thus helping scholars understand why Dell, IKEA, Nike, and others make the choices they do regarding value creation activities. A number of teaching cases, such as “Matching Dell” and “Zara—Fast Fashion,” based on the value chain framework have been developed and are some of the most widely used in business school courses on competitive strategy. The value chain is also invariably included in strategy textbooks as a tool of competitive strategy for analyzing industry and firm-level value creation.

The impact of the value chain theory is not limited to business schools and the academia alone. It is used widely by management consultants, and there are professional and industry associations dedicated to helping their members manage and optimize their value chains. The value chain is a theory that has proven its applicability and is being used widely in managerial practice.

**Where Does the Value Chain Theory Apply?**

The value chain theory conceptualizes the firm, and the industry, as a value creation chain in which raw materials or components are converted into more or less standardized end products and sold and distributed to customers in a routinized sequence of stages (as discussed above). Therefore, the value chain is best applied to companies and industries that create value in a predictable sequence of routines, mostly in manufacturing, distribution, and retail. Good examples of companies that can be conceptualized as value chains are chemical and car manufacturers, or supermarket and restaurant chains. However, when firms create value in nonroutine ways that do not involve a sequential chain of predictable activities, such as professional service companies, value chain is less applicable as a description and prediction of a firm’s activities.

Professional service firms—for example, in architecture, engineering, health care, law, and management consulting, or research and development units within companies—create value by solving client problems that are often unique. Such problem solving does not consist of sequential, routine activities but rather nonroutine, iterative processes that depend on any given client’s unique context and needs. Therefore, such firms or units are best characterized as “value shops” (labeled after a mechanic’s shop). In value shops, the central issue is not lowering costs (although they cannot be ignored) but finding a solution to a client’s problem, whether it has to do with health or productivity of his business. In order to find effective solutions to clients’ problems at acceptable cost, value shops need to have a right combination of resources given the type of problems they are solving. Cancer clinics need different resources than do cardiac wards at hospitals. Similarly, management consultants specializing in productivity problems need a different set of resources than consultants focusing on mergers and acquisitions. The value shops, but also many other firms, require their clients’ active participation in order to optimize the value creation process. For example, Dell’s customers “design” their own PCs from a broad menu of choices, IKEA’s customers transport and assemble their own furniture, and at the Mayo Clinic, the outpatients improve their own care with online guidance.
The Value Chain as a Theory of the Firm and a Tool of Competitive Strategy

All theories of the firm aim to explain how firms maximize profits. Many focus on questions such as how firms should be governed (the agency theory), or whether firms should produce their own components and products, or whether they should source them from outside (the transaction cost theory). The value chain theory is broader than these theories in that it covers the entire value creation process by explaining in which activities a firm optimally engages, including governance. The breadth delimits the theory’s exactness, however: It does not explain how to perform each activity better than competitors. The value chain is complemented by other theories, such as the resource-based view of the firm, which identifies resources and capabilities for performing value activities.

It should be noted that the value chain is intended for the analysis of profit maximization at the level of a business unit (such as a division of a corporation or a company operating in a single industry), although it can help identify how business units of a corporation can share value activities, such as a shared sales force for the household goods and the personal products divisions at Procter & Gamble Company.

The systematic and integrated nature of the value chain theory also makes it helpful as a tool of competitive strategy. Managers can analyze the industry value chain to determine in which stages their companies should participate to maximize profits. Once the firm’s value creation stages have been chosen, the managers can use the value chain to identify the optimal activities in each stage in order to lower costs or to increase customer willingness to pay.

Jaana Woiceshyn

See also Business Policy and Corporate Strategy; Competitive Advantage; Core Competence; Dynamic Capabilities

Further Readings


**Virtual Teams**

Virtual teams are gaining in popularity in today’s global, technologically advanced business environment. They help companies leverage their global expertise and knowledge, promote broader participation in decision making, take advantage of time differences to get more work done (e.g., following the sun), and lower travel costs. However, reaping these benefits presents unique challenges. This entry describes these challenges and addresses factors and the life cycle that must be managed to overcome the challenges and make virtual teams effective. It concludes with research insights. Virtual teams may be defined as two or more people who (a) work together interdependently with mutual accountability for achieving common goals, (b) do not work in either the same place and/or at the same time, and (c) must use electronic communication technology to communicate, coordinate their activities, and complete their team’s tasks. Initially, virtual teams were seen as the opposite of conventional, proximate teams who meet face-to-face. However, this binary view of a team as either virtual or not is rather simplistic, and researchers are now struggling to assess the degree of virtuality of teams, which typically includes some combination of points b and c above.
Virtual teams, which are alternatively called distributed and geographically dispersed teams, frequently face three major challenges to a greater extent than proximate teams: communication, technology, and team diversity challenges. Communication challenges stem from the use of lean media that make it difficult for members to convey nuances and ambiguity in their messages. Virtual members need to learn to work with new technologies, and organizations must ensure adequate technological support for virtual teams. Finally, many virtual teams are composed of members who come from different national, societal, and organizational cultures. A challenge for members and leaders in diverse virtual teams is to deal effectively with different languages and cultures.

The virtual team literature draws from a wide range of disciplines including organizational behavior, human resources, communication, psychology, and information systems. Early virtual team studies relied heavily on findings from prior research on teams, small groups, group support systems, and computer-mediated communications. Defining a team as a single, identifiable phenomenon (i.e., virtual or not) meant that much early research used lab experiments with student subjects to compare proximate teams with virtual teams. While early studies surfaced challenges faced by virtual teams, they provided only limited insights about how to deal with these challenges. Further, several thorough reviews of the literature noted the contradictory findings of these early studies. The remainder of the early research tended to be anecdotal and descriptive of team characteristics, costs, benefits, and challenges.

**Inputs-Processes-Outputs (IPO) Models**

Broadly defined, inputs-processes-outputs (IPO) models often focus on combinations of factors of virtual team inputs, processes, and outputs. Inputs include team composition, culture, task, and training; processes include a heavy focus on communicating, collaborating, building trust, resolving conflicts, building relationships, leading, and more recently on knowledge sharing; outputs include performance, team member satisfaction, and team well-being. Virtual team research to date has combined two or three of these factors at a time. Typical studies might look at how various types of conflict reduce team member satisfaction or how various collaboration strategies enhance knowledge sharing and decision quality. In total, research based on IPO models suggests that all of the inputs and processes mentioned above are important factors in improving virtual team outputs.

**Life Cycle Model**

In contrast to the IPO models is one which describes stages in a virtual team’s life cycle (i.e., preparation, launch, performance management, team development, and disbanding). In life cycle models, teams are formed, their work is completed, and the team is disbanded. But in this cycle, team members learn to work not only with specific individuals but also as virtual teams. So the concept of disbanding and then forming new teams with the same people or new ones makes the concept of team development very important.

**Insights**

No single model is widely used by virtual team researchers. Virtual team research covers a gamut of issues and has yielded a number of insights that are beneficial to practitioners (e.g., schedule synchronous meetings regularly, establish technology and communication norms early, match technology tools with the task and team members, build trust early and sustain it throughout the life cycle, employ leadership strategies to motivate remote workers, and measure performance using clearly defined deliverables). It clearly shows that virtual teams cannot be managed just like proximate teams.

Virtual team research is likely to thrive as long as virtual teams remain important to today’s businesses and their management remains an enigma. Researchers and practitioners alike will continue striving to understand what processes and team characteristics can overcome virtual team challenges and make teams effective over their life cycle.

Carol Saunders

See also Cultural Values; Group Punctuated Equilibrium Model; High- and Low-Context Cultures; High-Performing Teams; Knowledge Workers; Leadership Practices; Multicultural Work Teams; Trust
Further Readings


Work teams are defined as interdependent collections of individuals who share responsibility for specific outcomes in their organizations. Two elements of this definition are worth emphasizing. First, interdependence indicates that team members depend on each other to do their work. Consider a basketball or softball team where each person depends on the others when trying to produce a win. Second, team members share responsibility for delivering a certain product or result to the organization or larger social system within which they operate. These two elements of how teams function are important to keep in mind when considering theories of team effectiveness. Theories of team effectiveness address the definition of effectiveness, seek to identify factors that predict it, and explain how those factors operate. Examples include early models of team performance offered by Joseph E. McGrath as well as later ones focused on effectiveness, such as those offered by Susan G. Cohen and Diane E. Bailey, Steve W. J. Kozlowski, John E. Mathieu, Eric D. Sundstrom, and others. Team effectiveness should be conceptualized as part of a multilevel system with individual-, team-, and organizational-level factors and that requires special attention to the context within which teams perform their tasks. Team contexts are multifaceted and this, among other challenges, has prevented research on teams from being readily and consistently applied to real organizational situations. In the following section, a history of team effectiveness is briefly considered. Next, different approaches to team effectiveness are discussed and suggestions are made regarding which approaches are most relevant. Finally, a discussion of the validity and impact of the most relevant approaches to team effectiveness is provided.

Fundamentals

The application of work teams is centuries old. However, the documentation of their application in book chapters and research articles often begins with the Hawthorne studies conducted in the 1920s and 1930s, which included a series of empirical investigations of factors related to group outcomes. During this time period, however, the vast majority of organizational work was still performed by individual employees. The exceptions were primarily from military and manufacturing environments (i.e., cockpit and tank crews and informal automobile assembly teams). After the Hawthorne studies, the majority of interest in work teams was expressed by researchers rather than managers. In other words, the rate of research increased, whereas the application of work teams did not. Much of the early research involving work teams was performed by psychologists. Industrial/organizational psychologists followed their colleagues in social psychology by studying teams in organizational settings as opposed to the laboratory. While there was a significant amount of research being conducted through the 1950s, the application of teams did not become popular until the 1980s.

The increased interest from organizations for implementing work teams can be linked to the advent
of total quality management (TQM). Organizations such as Ford Motor Company, Lockheed-Martin, and Motorola began experimenting with multiple types of teams. First, quality circles were attempted, and then some companies started performing production, project, and service work with teams. Many organizations realized the benefits of team-based approaches by achieving increases in productivity, efficiency, and quality. For other organizations that failed to implement appropriate support mechanisms, the benefit of teams fell far short of their promise. This, however, did not deter a number of companies from experimenting with team-based structures. The implementation of teams to perform a variety of tasks became commonplace in the 1990s. Kodak (customer service teams), Chevron (interfunctional teams), Dow Corning (self-managed teams within a unionized context), Motorola (self-managed teams within a nonunionized context), and Miller Brewing Company (cross-functional teams) are just a few examples of the application of teams within organizations. Today, the pursuit of effective teams is ubiquitous across continents, industries, and organizations.

Types of Teams

It is important to categorize teams to gain a better understanding of what they do and how they are different. Most typologies focus on the following types of teams: (1) action and performing teams (e.g., surgery and SWAT teams), (2) advisory teams (e.g., task force), (3) management teams (e.g., top management teams, regional leadership teams), (4) production teams (e.g., paper mill work crews), (5) project teams (e.g., new product development teams), and (6) service teams (e.g., consulting teams).

Team Effectiveness

McGrath pioneered the most widely used “input-process-output” (IPO) model of group performance that is still relied on today to some extent. McGrath suggested that inputs are the key cause of processes that then mediate the effect of inputs on outcomes. Inputs can be defined as things people bring to the group (expertise, status, personality, and experience); processes can be defined as the interaction among group members (social exchange of information, influence attempts, and leadership); and outputs can be defined as products yielded by the group (performances, reports, and services). Of these, process variables have been the most difficult to accurately measure and understand because they are highly context dependent and dynamic. The dynamic nature of these processes contradicts their static operationalization in most research on teams.

In works that followed, several potential factors influencing effectiveness were considered. Jonathon Cummings offered a model based on sociotechnical theory that focused on control over social and task-related processes and group self-regulation. Another model in the early 1980s was based on the IPO sequence that suggested organizational context, interpersonal processes, design features (group task, composition, and norms), technology, and intermediate criteria of effectiveness (application of effort, knowledge and skill, and strategies) as key factors. This resulted in a new, comprehensive model containing six team effectiveness factors: group structure, resources, group process, task, organizational structure, and group composition. Others added group design, synergy, autonomy, physical environment, and a factor for group boundaries as additional variables important in a model of group effectiveness. Additional models were suggested in subsequent work and added emphasis to the utility of using five categories of factors related to work group effectiveness. These categories generally include (1) organizational context (e.g., training, reward, measurement, and information systems), (2) group composition (e.g., number of members and the mixture of individual traits such as personality and ability), (3) group work design (e.g., task interdependence, task predictability, task complexity, task significance, level of group autonomy, and degree of self-management), (4) intragroup processes (e.g., conflict, communication, collaboration, cohesion, and team norms), and (5) external group processes (e.g., external member interactions with peers, managers, suppliers, and customers). All together, these models suggest a number of factors contribute to team effectiveness.

These more recent depictions have explicitly attempted to incorporate time as a critical factor in accurately modeling team effectiveness. Time can be modeled in a number of ways, but there have been two primary approaches: (1) developmental models that illustrate how teams change and are differentially influenced by various factors as they mature and (2) episodic models that suggest teams must
execute different processes at different times based on the demands of their tasks and that these recur cyclically. The emergence of a large number of models has resulted in a far more understanding of what constitutes “team effectiveness.”

Importance
Research on team effectiveness has a robust history and has received considerable recent attention. However, several critical areas would improve the accuracy and potential benefit of research. These areas include but are not limited to (1) the explicit consideration of time, (2) adequately capturing the complexity of organizational teams, and (3) the development of research frameworks that move beyond IPO and IMOI (input-mediator-output-input) conceptualizations to more accurately model the numerous ways teams are organized today.

Prominent researchers who focused on teams, such as Kozlowski, Mathieu, Dan Ilgen, Sundstrom, and others, have long called for the need to more explicitly consider time and the overall complexity of groups when attempting to assess group effectiveness. Developmental and episodic approaches to time have contributed greatly to the field, but there is a need to consider time as a more substantive variable when examining teams. For example, how do teams manage the ever-changing dynamic context within which most of them operate? The reality is that team membership changes (i.e., team members leave, new ones are hired) and contextual issues shift constantly because of an evolving business environment (i.e., global economic environment, competitive presses) to mention just two. How do teams manage these dynamic issues over time? An additional related issue regarding time involves how much time team members have allocated to the team in question? Most team members are members of multiple organizational teams that compete for their attention and are typically not well coordinated. The issue of resource allocation regarding how much time team members are able to put toward specific team functions is an important one, as is the overlapping issue of multiple team memberships. The issues of time are related to the next challenge, accurately capturing the true complexity of teamwork.

Most work on teams collects data at one or two points in time and then attempts to identify key predictors of group effectiveness. While this is a very legitimate method, it does not permit researchers to consider enough of the context to accurately understand what truly impacts group effectiveness. For example, teams and their members have varied histories leading up to the point where they are examined in a research study. These histories undoubtedly have a significant impact on what drives their effectiveness, but this history is rarely assessed beyond team and organizational tenure. It is also likely that there are significant differences involving maturation, history, and developmental stage, among other differences, that are not measured and threaten the validity of subsequent findings. The research designs necessary to adequately capture at least some of this complexity will be very complex, time-consuming, and resource intensive. However, these types of approaches will be necessary to more fully and accurately understand what drives team effectiveness. Unfortunately, team arrangements in today’s business environment that fit within the IPO-style frameworks are very rare.

Developing frameworks that more accurately represent the manner in which teams are organized today is another area that will contribute to better understanding team effectiveness. New frameworks are emerging, especially in work focused on top management teams. In fact, this likely represents the next paradigm in work on team effectiveness. That is, researchers will likely employ frameworks that accurately model the teams being studied and move away from the restrictions enforced by IPO-like frameworks.

In conclusion, evaluating team effectiveness calls for recognizing their expanding role in today’s organizations, which has grown more ambiguous and less formal, because employees may have multiple team assignments and teams may have fluid memberships and timelines. Recent reviews have noted that organizations hold teams accountable for outcomes beyond those included in now-traditional definitions of effectiveness. Research on team effectiveness has adopted criteria at multiple levels of analysis, including beneficial individual-level impacts for members and organization-level outcomes. As Ilgen has indicated, research on teams has primarily focused on who is a member of the team, how they work together, and what they do to perform their work, but researchers have spent relatively less time considering the many elements that comprise team’s “effectiveness.” Therefore,
managers today can use these insights to more fully appreciate the challenges and success factors associated with team-based work. The dynamic nature of teamwork and the necessity of managing multiple perspectives make team effectiveness a challenging goal. However, four important success factors stand out. First, all team members must feel part of a team that is easily identifiable and distinct from others. Second, compelling team goals should be effectively aligned with individual roles. Third, effective training and technology systems should be established that facilitate the effective functioning of virtual teams. Finally, there should be organization-level systems (e.g., leadership, reward structures, measurement and feedback, training, etc.) designed to explicitly support the complex, dynamic nature of the work carried out by teams.

_Tjai M. Nielsen_

**See also** Complexity Theory and Organizations; Dynamic Capabilities; Group Development; Group Punctuated Equilibrium Model; Groupthink; High-Performing Teams; Multilevel Research; Virtual Teams

**Further Readings**


**Chronology of Management Theory**

*Nicholas J. Beutell*

1905: Max Weber's *The Protestant Ethic and the Spirit of Capitalism*—published in English in 1930; 1922: *The Theory of Social and Economic Organization* Weber is known for numerous contributions to management, including the theory of “bureaucracy,” a formalized and idealized view of organizations administered on the basis of knowledge and known for efficiency, impersonal relationships, task competence, and rules and procedures.

1910–1915: Henry L. Gantt designs a project-scheduling model for increasing the efficiency of project completion (Gantt Chart); protégé and associate of Frederick Taylor.

1911: Frederick W. Taylor’s *Principles of Scientific Management*—proposes an objective, systematic method rather than “rules of thumb” to indentify the “one best way” to perform a job; advocated scientific selection and training methods; cooperation between workers and managers with each doing what they are best suited to do; and pay tied to work performance.

1912: Frank Gilbreth becomes a disciple of Taylor’s—develops, along with his wife Lillian, a scheme for labeling hand movements; identified “therbligs” (Gilbreth spelled backward with the “t” and “h” transposed) as the basic unit of motion studies.

1913: Hugo Münsterberg’s *Psychology and Industrial Efficiency*—presents a scientific study of human behavior in the work environment; analysis of individual differences.

1916: Henri Fayol, an engineer and managing director, publishes *Administration Industrielle et Générale* (General and Industrial Administration); identifies 14 principles of management such as authority and responsibility, unity of command, scalar principle, remuneration, esprit de corps, etc.; believed that management could be taught.

1924: Lillian Gilbreth takes over management consulting company after her husband, Frank Gilbreth, dies. Lillian was the first woman to obtain a PhD in management; she made numerous contributions to industrial psychology.

1933, 1939: Elton Mayo, *The Human Problems of an Industrial Civilization* (1933) and 1939: Fritz Roethlisberger and William Dixon, *Management and the Worker* (1939), Hawthorne Studies conducted at Hawthorne Plant of Western Electric Corporation—examines various changes (e.g., lighting) to gauge the effect on employee productivity in a factory environment; studies are widely criticized for experimental errors yet have a wide-ranging impact and provide the genesis of the human relations school; the “Hawthorne effect” refers to changes in behavior resulting from being studied rather than effects associated with experimental manipulations (although this interpretation has been questioned).

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**Note:** *Chronology covers a time period beginning at the onset of the 20th century and ending 5 years prior to the writing of this appendix.*
1925: Mary Parker Follett, *The Psychological Foundations of Business Administration*—suggests that organizations are communities involving networks of groups; manager’s job is to coordinate group effort; anticipated many contemporary concepts like motivation, leadership, and empowerment.

1938: Chester Barnard, business executive, publishes *The Functions of the Executive*—argues that managers should communicate and encourage workers to high levels of success; proposes the acceptance theory of authority—that success depends on cooperation of employees.

1944–1951: Kurt Lewin’s action research model, including in *Action Research and Minority Problem*—presents a model of social research leading to action along with feedback on the effects of that action; noted for work on group dynamics and behavioral commitment; identifies a model of planned change (unfreezing, change, refreezing); and force field analysis. Also credited for beginning t-groups.

1947: Herbert A. Simon, *Administrative Behavior: A Study of Decision-Making Processes in Administrative Organizations*, based on his doctoral dissertation—coins the terms *bounded rationality* (people have limits or boundaries on the amount of information they can process to make a decision) and *satisficing* (selecting the first solution that satisfies decision criteria even though better solutions might exist) related to decision making.

1950: George Homans, *The Human Group*—advances small-group theory and research; attempts to extrapolate from a single group to understanding the social system.

1952: Solomon Asch studies of social influence (Asch Effect)—proposes that social pressure can induce people to select choices that are objectively incorrect.


1957: Chris Argyris, *Personality and Organization*—identifies fundamental conflicts between individual and organizational needs.

1958: James March and Herbert Simon, * Organizations*—presents a comprehensive review of organizational theory revealing a number of limitations and gaps, highlighting themes relating to cognition and decision making, and presenting directions for subsequent research.

1959: Frederick Herzberg et al., *The Motivation to Work*—proposes a two-factor theory (motivator-hygiene) suggesting that motivator factors (e.g., recognition, the work itself) can lead to job satisfaction and motivation, while a separate set of factors (hygiene factors—e.g., work environment, pay) can lead to job dissatisfaction.

1959: John R. P. French and Bertram Raven, *The Bases of Social Power*—argues that five types, or bases, of power (coercive, reward, legitimate, referent, and expert) are linked with leadership.

1959: John Thibaut and Harold Kelley, *The Social Psychology of Group*—argues that social behavior is an exchange process based on rewards and costs with the goal of maximizing rewards and minimizing costs.

1959: Ford Foundation and Carnegie Foundation reports that blasted business schools for lack of intellectual content and fostered the hiring of people from “the disciplines” into business schools thereby fostering business school research.

1960: Fred E. Emery and Eric L Trist discuss “socio-technical systems”—suggests that any production system consists of two elements: a technological organization (i.e., equipment, process) and a work organization (those who do the work having social and psychological needs).

1960: Douglas McGregor, *Human Side of Enterprise*—propounds an overall approach to organizations and organizational change; a model for improving relationships with employees to the extent to which managers can model the hypothetical “Manager Y,” a supportive and understanding manager who trusts employees to work hard (Theory Y vs. Theory X).

1960–1970: Development of SWOT (strengths, weaknesses, opportunities, and threats) analysis at
Stanford Research Institute, often credited to Albert Humphrey; this concept emerged for a number of theories and corporate planning approaches.

1961: David McClelland’s *The Achieving Society*—discusses the need for achievement (first identified by Henry A. Murray), need to excel, to perform against standards, and to win; McClelland extended his theory to other acquired needs such as need for power and need for affiliation.


1961: Harold Koontz, “Management Theory Jungle” (Academy of Management Journal, Vol. 4, No. 3)—identifies schools of management thought such as empirical, human behavior, mathematical, social system, decision theory, and management process; convergence of approaches seems unlikely.

1961: Rensis Likert, *New patterns of management* and 1967: *The Human Organization*—proposes a “linking-pin” (organizations consist of “families” that are linked together) model to bridge human relations and organization structure.

1961: Warren Bennis, Kenneth Benne and Robert Chin, *The Planning of Change*—lays out a foundation for planned organizational change such as organization development.

1962: Kaoru Ishikawa develops the *quality circle* concept with the Japanese Union of Scientist and Engineers quality research group; begun as an experiment to test the influence of the “leading hand” (Gemba-cho) on quality; W. Edwards Deming is also associated with this concept, where small groups of employees and supervisors meet regularly to solve quality issues and operational improvements.

1962: Peter M. Blau and W. Richard Scott, *Formal Organizations: A Comparative Approach*, one of the founding texts of organizational sociology—analyzes formal organization in a way that goes beyond individuals and groups to explore organizations as collective actors.

1962: Everett Rogers, *Diffusion of Innovations*—attempts to explain how, why, and the rate of adoption of new ideas and technologies in a culture.

1962: Alfred Chandler, *Strategy and structure*—analyzes large corporations and the way executives plan, coordinate, and appraise in such structures; proposes that strategy determines long-term organizational goals, tactics, and resources; structure is the design for administering organization activities; structure follows strategy.

1963: Warren T. Norman, *Diffusion of Innovations: Replicated Factor Structure in Peer Nomination Personality Ratings*—finds five essentially orthogonal personality factors (empirically derived) that were the basis for Big Five personality traits (openness to experience, conscientiousness, extraversion, agreeableness, and neuroticism).

1963: Richard Cyert and James March, *Behavioral Theory of the Firm*—explains decision making within the firm suggesting, based on Simon’s work, that individuals and groups “satisfice” as they pursue goals rather than attempting to maximize the utility or profitability of a decision.

1964: Victor Vroom, *Work and Motivation*—uses expectancy theory to integrate various scholarly approaches to work motivation by examining how valence, instrumentality, and expectancy can be managed to align individual and organizational objectives.

1964: Robert Kahn, Donald Wolfe, Robert Quinn, J. Diedrick Snoek, and Robert Rosenthal, *Organizational Stress: Studies in Role Conflict and Ambiguity*—examines role expectations in the organizational environment leading to conflict and ambiguity such that maintained stress leads to health issues and diminished sense of well-being.

1965: J. Stacy Adams, *Inequity in Social Exchanges*—uses equity theory to argue that employees compare their ratio of inputs to outputs from the job with others; an imbalance leads to actions to reduce the perceived inequity.

1965: Joan Woodward, *Industrial Organization: Theory and Practice*—argues that technology and production systems were critical aspects of organizational design; advanced a contingency approach to organizing.

1966: Daniel Katz and Robert L. Kahn, *The Social Psychology of Organizations*—presents a
unified, open systems approach extending organizational theory beyond the boundaries of a single organization.

1966: Peter Berger and Thomas Luckmann, *The Social Construction of Reality: A Treatise in the Sociology of Knowledge*—identifies the ways in which individuals and groups actively participate in constructing their notions of reality as an ongoing and dynamic process.

1966: Peter Berger and Thomas Luckmann, *The Social Construction of Reality: A Treatise in the Sociology of Knowledge*—identifies the ways in which individuals and groups actively participate in constructing their notions of reality as an ongoing and dynamic process.


1967: Fred Fiedler publishes *A Theory of Leadership Effectiveness*—argues that leader effectiveness is contingent upon two interacting factors, leadership style, and situational favorableness.


1968: Bruce Henderson creates Boston Consulting Group Matrix to help companies analyze their product lines or business units; uses market share and growth rate to classify business units as cash cows, dogs, question marks, or stars.


1969: B. F. Skinner, *Contingencies of Reinforcement: A Theoretical Analysis*—argues that operant conditioning can shape behavior; identifies a reinforcer as any contingent stimulus that increases the target behavior.

1969: Karl Weick, *The Social Psychology of Organizing* (second edition published in 1979)—defines organizing as “the consensually validated grammar for reducing equivocality by means of sensible interlocked behaviors”; his notable works have made many theoretical contributions, including concepts such as enactment, mindfulness, sensemaking, and loose coupling.

1972: Michael Hunt, *Competition in the Major Home Appliance Industry*—coined the term *strategic group* based on an analysis of the appliance industry; an analytic tool for grouping companies using similar business models or strategies into direct and indirect competitors.


1974: Ken Thomas and Ralph Kilmann, *The Thomas-Kilmann Conflict Mode Instrument*—measures conflict situations along two dimensions (assertiveness and cooperativeness) along with five options for resolving conflict including competing, accommodating, avoiding, compromising, and collaborating.

1974: Robert House and Terence Mitchell, *Path Goal Theory of Leadership*—examines how leader behavior can clarify paths to goals that subordinates value, and, in so doing gains increased acceptance from subordinates.

1974: Ralph Stogdill, *Handbook of Leadership: A Survey of the Literature*—identifies the major traits (e.g., decisive, dependable) and skills (e.g., intelligent, creative) of managers based on previous research studies.


1975, 1981: Oliver E. Williamson, *Markets and Hierarchies: Analysis and Antitrust Implications* (1975) and *The Economics of Organization: The Transaction Cost Approach* (1981)—shows that “transactions” go beyond buying and selling to include a variety of behaviors such as emotional interactions and informal gift giving; transaction costs are influenced by factors including frequency, specificity, uncertainty, bounded rationality, and opportunistic behavior; formulate the basis of the “make vs. buy” decision.

these psychological states, feedback, and employee growth need strength (based on higher order needs from A. Maslow).

1976: Derek S. Pugh and David J. Hickson, *Organizational Structure in Its Context: The Aston Programme I* (and subsequent series of empirical findings from the Aston Program)—systematically analyzes dimensions of organizational structure applicable to all organizations.


1977: Albert Bandura, *Social Learning Theory*—shows that learning derives from observation and modeling; that mental processes are a critical component (in contrast to purely behavioral approaches) and that learning can occur even though the learned behaviors are not immediately exhibited. Also “Self-Efficacy: Toward a Unifying Theory of Behavioral Change” (*Psychological Review*, Vol. 84, No. 2)—identifies self-efficacy, a person’s belief that he or she can be successful in a particular situation, as a major factor in changing behavior.

1977: B. J. Calder, “An Attribution Theory of Leadership” (in *New Directions in Organizational Behavior*, edited by Staw and Salancik)—posits that leadership is an attribution that people make rather than a set of traits or behaviors.


1978: Chris Argyris and Don Schön, *Organizational Learning: A Theory of Action Perspective*—distinguishes between single-loop and double-loop learning—the former refers to corrective actions required to maintain homeostasis, whereas double-loop learning examines the assumptions and values of the actions taken.

1978: Jeffrey Pfeffer and Jerry Salancik, *The External Control of Organizations: A Resource Dependence Perspective*—advances the idea that resource exchange is necessary for organizational survival, and acquiring resources can result in organizational competition and unequal, dynamic interdependencies since the supply of resources is finite.

1979: Gibson Burrell and Gareth Morgan, *Sociological Paradigms and Organizational Analysis*—examines fundamental sociological approaches that underlie ways of thinking about organizations; proposes four major paradigms: radical humanist, functionalist, radical structuralist, and interpretive.

1979: Daniel Kahneman and Amos Tversky publish “Prospect Theory: An Analysis of Decisions Under Risk” (*Econometrica*, Vol. 47, No. 2)—argues that decision makers examine potential losses and gains rather than the overall decision outcome; also examines the heuristics used to evaluate potential losses and gains.

1979: Anthony Giddens, *Central Problems in Social Theory: Action, Structure, and Contradiction in Social Analysis*—considers the concept of action in the context of structural components of social institutions; attempts to resolve the long-standing agency-structure quandary in social analysis.

1980: Michael Porter, *Competitive Strategy*—develops Hunt’s (1972) concept of strategic groups arguing that such groups create mobility barriers that function like entry barriers except they are created within industry groups; seminal work on strategy considers generic strategies and competitive forces (rivalry among existing competitors, new entrants, buyers, suppliers, and substitute products or services) that contribute to the profitability on an industry.


1980: Geert Hofstede, *Culture’s Consequences: International Differences in Work-Related Values*—summarizes the results of a major survey of IBM
employees’ cultural values conducted between 1967 and 1973; the primary dimensions of national cultural values include power distance, individualism, uncertainty avoidance, and masculinity/femininity; widely used in international human resource management.


1981: William G. Ouchi, *Theory Z: How American Management Can Meet the Japanese Challenge*—argues that American companies should employee Japanese-style management techniques, the essence of which is a unique way of managing people (e.g., staff development, consensual decision making); based on McGregor’s Theory X and Theory Y as well as Abraham Maslow’s Theory Z.


1983: Robert E. Quinn and J. A. Rohrbaugh, “A Spatial Model of Effectiveness Criteria: Towards a Competing Values Approach to Organizational Analysis” (*Management Science, Vol. 29, No. 3*)—develops the competing values framework in relation to organizational effectiveness consisting of two dimensions: organizational focus (internal vs. external) and stability/control versus flexibility/change.

1983: Teresa Amabile, *The Social Psychology of Creativity: A Componential Conceptualization*—identifies three necessary and sufficient conditions for creativity: domain-relevant skills, creativity-relevant skills, and task motivation; examines the impact of personality, cognitive ability, and social factors.

1984: Eliyahu Goldratt and Jeff Cox, *The Goal*—advances a theory of constraints (“a chain is no stronger than its weakest link”) through a fictional account of UniCo Manufacturing.

1984: Anthony Giddens, *The Constitution of Society: Outline of the Theory of Structuration*—explores the extent to which individual or social forces shape our reality; all human action occurs against the backdrop of a social structure that shapes and is shaped by such action.

1984: R. Edward Freeman, *Strategic Management: A Stakeholder Approach*—argues, in contrast to the traditional shareholder view of the firm, that stakeholders (“those groups without whose support the organization would cease to exist”) need to be considered as well.

1985: Michael Tushman and Elaine Romanelli, “Organizational Evolution: A Metamorphosis Model of Convergence and Reorientation” (*Research in Organizational Behavior, Vol. 7*)—presents a model of organizational evolution that examines forces for stability, forces for change, and the role that executive leadership plays in these processes.

1985: Edward Deci and Richard Ryan publish *Intrinsic Motivation and Self-Determination in Human Behavior*, the first comprehensive statement of self-determination theory—proposes that humans have an intrinsic tendency to behave in effective and healthy ways.


1985: Michael Porter publishes *Competitive Advantage: Creating and Sustaining Superior Performance*—shows how firms leverage a combination of attributes and resources across a “value-chain” enabling the firm to outperform other firms in the industry.
1985: Stuart Albert and David Whetten, *Organizational Identity* (in *Research in Organizational Behavior, Vol. 7*, edited by Cummings and Staw)—introduces thinking about elements of an organization that are believed to be central, enduring, and distinctive.

1986: Bill Smith, Motorola Corporation—develops the Six Sigma methodology as a way to count quality defects in manufacturing based on conceptual developments at Motorola begun in the 1970s; six sigma quality standard is fewer than 3.4 defects per million parts or opportunities; widely used as a tool for quality improvement as well as reducing costs.

1986: Michael Tushman and P. Anderson, “Technological Discontinuities and Organizational Environments” (*Administrative Science Quarterly, Vol. 31, No. 3*)—examines the impact of technological discontinuities on different industries; technological evolution has long periods of incremental change followed by competency-destroying or competency-enhancing discontinuities.


1989: Blake Ashforth and Fred Mael, “Social Identity and the Organization” (*Academy of Management Review, Vol. 14, No. 1*)—argues that people categorize themselves and others into categories (e.g., organizational membership, age, gender) and that social classification permits people to locate themselves in a social environment.


1989: Andrew Van de Ven, Harold Angle, and Marshall Scott Poole, *Research on the Management of Innovation*—reveals that the stages of innovation from invention to implementation do not follow a straightforward set of stages, suggesting a higher level of complexity to this process than previously believed.


1990: Edgar H. Schein, *Career Anchors*—identifies eight major career themes (e.g., autonomy/independence, general managerial competence) that tend to keep employees anchored to their primary theme that emerges from life and occupational experience.

1990: Peter Senge, *The Fifth Discipline*—popularizes the concept of the learning organization based on five disciplines: systems thinking, personal mastery, mental models, shared vision, and team learning.

1990: Michael Porter, *Competitive Advantage of Nations*—examines the role played by a country’s economic environment in relation to success of firms in different industries; his diamond model includes firm strategy, structure, and rivalry; demand conditions (expectations of customers); related and supporting industries; and factor conditions (key production factors are created not inherited).
1991: Walter W. Powell and Paul J. DiMaggio, eds., *The New Institutionalism in Organizational Analysis*—examines the institutional approach to organizational analysis from a sociological perspective; going beyond economic approaches the institutional model shows how institutions interact and how these interactions affect society.

1992: Robert Kaplan and David Norton, *The Balanced Scorecard*—builds on the work of consultant Arthur Schneiderman of Analog Devices to present a comprehensive management control and performance measurement system that examines strategic success factors in addition to traditional financial measures affecting a firm's performance.


1993: Michael Hammer and James Champy, *Reengineering the Corporation: A Manifesto for Business Revolution*—advances the idea that business processes should be reengineered to eliminate activities that do not add value and redesign core processes that support the organization's mission.

1993: Jeffrey Pfeffer, “Barriers to the Advancement of Organizational Science: Paradigm Development as a Dependent Variable” (*Academy of Management Review*, Vol. 18, No. 4)—argues that organizational science is not well developed paradigmatically; examines how certain values (e.g., theoretical and methodological diversity) have slowed scientific progress.


1995: Denise Rousseau, *Promises in Action: Psychological Contracts in Organizations*—conceptualizes the psychological contract (originally used by Argyris in 1960) as the beliefs that employees hold about their employment relationship that becomes relatively stable over time.

1995: Daniel Goleman, *Emotional Intelligence: Why Can It Matter More Than IQ*—suggests that emotions should be given a greater role in human behavior, decision making, and individual success.

1996: Gary Hamel and C. K. Prahalad, *Competing for the Future*—redefines corporate strategy, indicating that companies need to develop a view of the future based on industry foresight to create a new competitive space.

1996: John Kotter, *Leading Change*—develops an eight-step model of planned change that has guided change efforts for years; examines the profound significance of leaders in the change process.

1997: Clayton Christensen, *The Innovator’s Dilemma: When New Technologies Causes Existing Firms to Fail*—shows how a company's successes and competencies can create barriers to coping with changing technologies and markets.


2001: James Collins, *Good to Great*—describes the reasons that some companies excel while others do not; “Level 5 Leadership” (*Harvard Business Review*, Product 5831)—contributes to enduring greatness by blending humility and resolve to do what is best for the company.

2002: Michael Hitt, R. Duane Ireland, Michael Camp, and Donald Sexton, *Strategic Entrepreneurship: Creating a New Mindset*—identifies how firms can identify entrepreneurial opportunities by focusing on the most promising prospects and exploiting them using a strategic business plan.

2003: Kim Cameron, Jane Dutton, and Robert E. Quinn, “Positive Organizational Scholarship” (*Journal of Management Inquiry*, Vol.17, No. 1)—provides a framework for and highlights the effects
of positive, enriching organizational dynamics that give rise to extraordinary outcomes.

2004: C. K. Prahalad, *The Fortune at the Bottom of the Pyramid*—shows how the billions of poor people in the world represent a great, untapped market; serving this population helps companies and helps the economic aspirations of those being served.

2004: Henry Mintzberg, *Managers Not MBAs: A Hard Look at the Soft Practice of Management and Management Development*—offers a critique of management education revealing how MBA programs are ineffectual in training practicing managers; suggests a new paradigm to increase managerial effectiveness.

2005: Sumantra Ghoshal, “Bad Management Theories Are Destroying Good Management” (*Academy of Management Learning and Education*, Vol. 4, No. 1)—shows how academic business and management research have had a negative impact on practice stemming from the ideas and assumptions that have guided research.

2006: Jeffrey Pfeffer and Robert Sutton, *Hard Facts, Half-Truths, and Total Nonsense: Profiting From Evidence-Based Management*—shows how many accepted management truisms are not only incorrect but, when used by managers, may actually harm the organization; argues for a new model based on evidence.


2007: Andrew Van de Ven, *Engaged Scholarship*—proposes a participative and collective form of scholarship that transcends the capability of individual researchers.
## Central Management Insights

<table>
<thead>
<tr>
<th>Entry</th>
<th>Central Management Insight</th>
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</thead>
<tbody>
<tr>
<td>Academic-Practitioner Collaboration and Knowledge Sharing</td>
<td>It is possible to create more insightful knowledge for theory and practice if academics and practitioners collaborate.</td>
</tr>
<tr>
<td>Acculturation Theory</td>
<td>People’s cultural beliefs and behaviors need to be understood and incorporated into organizational policies and practices in order to achieve effective operations.</td>
</tr>
<tr>
<td>Achievement Motivation Theory</td>
<td>Acquired motives—achievement, affiliation, and power—are important for managerial performance and should be used for global selection and assessment of managers.</td>
</tr>
<tr>
<td>Action Learning</td>
<td>It is possible to develop organizational members’ competencies in the process of solving real, difficult management issues.</td>
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<tr>
<td>Action Research</td>
<td>Actionable knowledge is most effectively produced through deep inquiry into a group’s practices via systematic, iterative processes of data gathering, reflection, and action.</td>
</tr>
<tr>
<td>Actor-Network Theory</td>
<td>Human and nonhuman organizational actors are generated and “held together” by interactive, continuous, and heterogeneous network forces and strategies.</td>
</tr>
<tr>
<td>Adaptive Structuration Theory</td>
<td>Information technologies do not automatically change behavior or improve effectiveness; this depends on how effectively managers facilitate the appropriation of information technology (IT) by users.</td>
</tr>
<tr>
<td>Affect Theory</td>
<td>If jobs are structured as joint tasks in which responsibility for results is shared, then employees develop stronger affective commitments to the organization.</td>
</tr>
<tr>
<td>Affective Events Theory</td>
<td>Work and life experiences are proximal influences on people’s subjective mood and emotional episodes, which in turn are related to work performance and job attitudes.</td>
</tr>
<tr>
<td>Agency Theory</td>
<td>The interests of shareholders and managers tend to differ but can be aligned to achieve the maximization of shareholder value.</td>
</tr>
<tr>
<td>Analytic Hierarchy Process Model</td>
<td>Managers can utilize a relatively easy and robust process for establishing priorities in multicriteria decision settings.</td>
</tr>
<tr>
<td>Analytical and Sociological Paradigms</td>
<td>The study of organizations, and the body of knowledge about them, is shaped by researchers’ implicit assumptions and training, which reflect a range of orthodox and heterodox “paradigms.”</td>
</tr>
<tr>
<td>Appreciative Inquiry Model</td>
<td>Teams, organizations, and society evolve in whatever direction people collectively, passionately, and persistently ask questions about.</td>
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<tr>
<td>Topic</td>
<td>Description</td>
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<tr>
<td>Architectural Innovation</td>
<td>Significant competitive advantage can be gained from innovations that change the linkages between product components.</td>
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<tr>
<td>Asch Effect</td>
<td>Social pressure can convince group members to falsify their beliefs in order to achieve group consensus.</td>
</tr>
<tr>
<td>Attraction-Selection-Attrition Model</td>
<td>People make organizations through a process of attracting and selecting matching employees and attritioning out nonmatching employees.</td>
</tr>
<tr>
<td>Attribution Model of Leadership</td>
<td>Leaders’ and employees’ causal explanations for employee performance uniquely and interactively influence performance responses including future expectations and behaviors.</td>
</tr>
<tr>
<td>Authentic Leadership</td>
<td>Leaders who remain true to their personal values and convictions and display consistency between their words and deeds will foster elevated levels of follower trust and performance.</td>
</tr>
<tr>
<td>Bad Theories</td>
<td>Academia perpetuates a number of bad management theories that promote detrimental business practices, and those theories must be carefully reexamined.</td>
</tr>
<tr>
<td>Balanced Scorecard</td>
<td>Strategy development and execution can be enabled by a balanced set of performance measures focusing on organizational goals—financial, customer, processes, and learning and growth.</td>
</tr>
<tr>
<td>BCG Growth-Share Matrix</td>
<td>The basis of competitive advantage and growth is derived by managing the relationship of the company's portfolio of product lines or business units.</td>
</tr>
<tr>
<td>Behavioral Perspective of Strategic Human Resource Management</td>
<td>Human resource (HR) management systems are most effective when they are designed to support strategic business objectives.</td>
</tr>
<tr>
<td>Behavioral Theory of the Firm</td>
<td>Managers will behave differently from what is assumed in rational actor views of the organization both with respect to internal processes and relations to the environment.</td>
</tr>
<tr>
<td>Big Five Personality Dimensions</td>
<td>Individual differences along five personality traits (extraversion, agreeableness, conscientiousness, emotional stability, openness to experience) affect many management issues.</td>
</tr>
<tr>
<td>Bounded Rationality and Satisficing (Behavioral Decision-Making Model)</td>
<td>The concept of rational economic man must be reconciled with the many cognitive, perceptual, situational, and other limits on rationality that influence decision makers to make satisfactory rather than optimal choices.</td>
</tr>
<tr>
<td>Brainstorming</td>
<td>Efforts at creative idea generation deserve focused attention and can benefit from adopting a formalized structure.</td>
</tr>
<tr>
<td>Bureaucratic Theory</td>
<td>Bureaucracy remains the dominant, albeit an imperfect and double-edged, system of administration for shaping intendedly rational, goal-oriented human interactions through objective knowledge and scientific analysis.</td>
</tr>
<tr>
<td>Business Groups</td>
<td>Firms in many parts of the world are part of business groups and derive unique advantages as well as disadvantages from their affiliation.</td>
</tr>
<tr>
<td>Business Policy and Corporate Strategy</td>
<td>Companies can create value through the configuration and coordination of their multibusiness activities by aligning vision, resources, businesses, and role of the headquarters.</td>
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<tr>
<td>Business Process Reengineering</td>
<td>Dramatic business improvement can be accomplished with radical process redesign that is supported by information technology.</td>
</tr>
<tr>
<td>BVSР Theory of Human Creativity</td>
<td>Human creativity requires individuals to generate and test low-probability ideas whose utilities are unknown in advance.</td>
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<td>Topic</td>
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<tr>
<td>Career Stages and Anchors</td>
<td>Career choice should be seen as an ongoing journey of exploration and self-construction driven by patterns of self-perceived competence, motivators, and values that guide and constrain development.</td>
</tr>
<tr>
<td>Causal Attribution Theory</td>
<td>The behaviors and emotions of leaders and followers are driven by their beliefs about the causes of their own as well as others’ successes and failures.</td>
</tr>
<tr>
<td>Charismatic Theory of Leadership</td>
<td>Charismatic leadership is an attribution based on followers’ interpretations of their leader’s behavior; a set of distinct behaviors leads to this attribution.</td>
</tr>
<tr>
<td>Circuits of Power and Control</td>
<td>Power is not a thing that people have but a social relation that is dynamic, potentially unstable, and resisted.</td>
</tr>
<tr>
<td>Cognitive Dissonance Theory</td>
<td>Individuals’ deep-seated desire for consistency can have profound consequences, including shifts in attitudes, behavioral changes, and self-justification of decisions.</td>
</tr>
<tr>
<td>Cognitive Resource Theory</td>
<td>Leaders tend to use their raw intelligence to make decisions; however, in some situations, leaders’ relevant experience strongly contributes to effectiveness.</td>
</tr>
<tr>
<td>Competing Values Framework</td>
<td>In every organization, competing and contradictory values exist; the most effective organizations, as well as the most effective leaders, are paradoxical—they simultaneously represent and display competing values.</td>
</tr>
<tr>
<td>Competitive Advantage</td>
<td>The primary objective of a firm’s strategy is to identify, create, and sustain a competitive advantage over its industry rivals by identifying a unique position so as to reduce or counter the profit-reducing effect of the forces in that industry.</td>
</tr>
<tr>
<td>Complexity Theory and Organizations</td>
<td>Managers need to understand how individuals and firms interact and not only how they perform individually; organizational performance depends on interdependent interactions within the system as a whole.</td>
</tr>
<tr>
<td>Compliance Theory</td>
<td>Management “styles”—good practices, patterns of achievement—cannot be transferred; each kind of organization needs a form of management tailored to its special kind of hierarchy, rewards, incentives, and possible sanctions.</td>
</tr>
<tr>
<td>Componential Theory of Creativity</td>
<td>The work environment can be as important for creativity as employee talent; creativity should be highest when intrinsically motivated, expert, creative thinkers work in a social environment that supports creativity.</td>
</tr>
<tr>
<td>Conflict Handling Styles</td>
<td>Managers can choose from a variety of conflict styles, varying in concern for self and for others, which will be most effective in different situations.</td>
</tr>
<tr>
<td>Contingency Theory of Leadership</td>
<td>Leadership behaviors will not necessarily yield the same results in all situations; a fit between leadership style and contingency variables is positively related to leadership effectiveness.</td>
</tr>
<tr>
<td>Continuous and Routinized Change</td>
<td>Revolutions are not necessary for organizational development; continuous, routinized change shifts the focus from “change” to “changing” through an ongoing mixture of reactive and proactive modifications guided by purposes at hand.</td>
</tr>
<tr>
<td>Cooptation</td>
<td>Organizations reflect not only the aim of its principals but also to some degree other stakeholders’ aims, such as external collaborators, professional groups, and senior management.</td>
</tr>
<tr>
<td>Core Competence</td>
<td>Core competence—firm-specific bundles of skills, insights, and capabilities gained from accumulated knowledge, learning, and investment—enable organizations to create, innovate, and deliver value to its stakeholders.</td>
</tr>
</tbody>
</table>
Corporate Social Responsibility

Business is embedded in society; therefore, every business decision must consider the resulting direct or indirect social impacts.

Critical Management Studies

Management and organization need to be assessed broadly; in their operations and in outcomes, there are dark aspects calling for careful scrutiny and exploration.

Critical Theory of Communication

Organizations and the various forms of knowledge and the human identities of members are products of complex interaction processes conducted under conditions of inequality.

CSR Pyramid

Corporate social responsibility (CSR) embraces four distinct but overlapping responsibilities: economic, legal, ethical, and philanthropic.

Cultural Attitudes in Multinational Corporations

The seemingly limitless ways that firms seek to internationalize can be compared and meaningfully understood by examining the cultural mind-sets of senior organizational decision makers.

Cultural Intelligence

Managers’ adjustments in new cultural contexts can be explained by a faceted model of cultural intelligence (CQ) that considers cognitive/metacognitive, motivational, and behavioral elements.

Cultural Values

To fit in with emerging globalization challenges, managers should try to understand the meaning of value systems and how they may affect the business environment.

Decision Support Systems

People can make better decisions with computer support that uses data access and models to aid learning about decision environments.

Decision-Making Styles

Managers should be mindful of differences in individuals’ preferred ways of perceiving and responding to problem-solving situations and understand their impact on decisions made.

Dialectical Theory of Organizations

Organizational structures and practices are shaped by complex and contradictory social forces only partially controlled by rational decisions.

Diamond Model of National Competitive Advantage

A number of structural factors work together to create the conditions for the competitiveness of industries and firms within particular nations which can derive benefits from their “home base.”

Differentiation and the Division of Labor

The distribution of work into specialized tasks, roles, and functions are key characteristics of modern management; however, this must be balanced with integration, control, and organizational flexibility needs.

Discovery Theory of Entrepreneurship

There are reasons—such as position, cognition, and deliberation—why some people may be more likely to discover entrepreneurial opportunities than others.

Diversification Strategy

Expanding the scope of the business segments where the firm competes can be a value-enhancing strategy.

Double Loop Learning

Entrenched assumptions and governing values inform peoples’ theory-in-use which influences their action strategies; deep reflection on this underlying reasoning process questions the status quo and enables productive change.

Dramaturgical Theory of Organizations

The organization can be seen through metaphor as an acting unit that presents strategies and tactics designed to enhance the power and authority of the organization.

Dual-Concern Theory

Managers can often achieve good outcomes if they care not only about their own interests but also other’s interests and seek outcomes of negotiation that maximize collective welfare.
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<th>Appendix B</th>
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</table>

**Dual-Core Model of Organizational Innovation**

Organizations implement administrative and technical innovations via different organizational groups and management processes.

**Dynamic Capabilities**

Top management needs to add and shed organizational resources as it detects opportunities, threats, and changes in the business environment.

**Emotional and Social Intelligence**

Emotional and social capabilities are direct characteristics of an individual that lead to or cause effectiveness in management, leadership, and other occupations.

**Empowerment**

When individuals feel psychologically empowered—through meaning, competence, self-determination, and impact—their intrinsic motivation and personal efficacy expectations are strengthened.

**Engaged Scholarship Model**

Collaborative inquiries between universities, practitioners, and other relevant community partners help bridge the theory-practice gap and yield more relevant solutions to societal issues.

**Entrepreneurial Cognition**

Entrepreneurs use mental models to connect seemingly dissimilar pieces of information in thinking through new opportunities and making decisions.

**Entrepreneurial Effectuation**

Effectual action inverts predictive strategies to offer entrepreneurs a learnable method for shaping their environment and better controlling situations.

**Entrepreneurial Opportunities**

Entrepreneurs should match the type of opportunity they are trying to exploit with the appropriate processes to increase their chances for successful exploitation and wealth creation.

**Entrepreneurial Orientation**

An organization can be considered more (or less) entrepreneurial as a collective entity; it may develop a strategic orientation toward entrepreneurial activity and behavior.

**Environmental Uncertainty**

Managers should adjust their attitudes toward environmental uncertainty, analyze its multidimensional sources and attributes, and then manage direct and moderating effects accordingly.

**Equity Theory**

Employees feel fairly compensated based on perceptions of rewards relative to contributions as compared with a benchmark rewards/contributions ratio.

**ERG Theory**

Three types of human needs—existence, relatedness, and growth—influence behavior and highlight the necessity of both extrinsic and intrinsic motivational options.

**Escalation of Commitment**

Decision makers should understand and reduce the danger of becoming increasingly committed to courses of action that have become unprofitable.

**Ethical Decision Making, Interactionist Model of**

Ethical decision making in organizations is driven largely by the individual's cognitive moral development but also results from its interaction with other individual differences and contextual features.

**European Model of Human Resource Management**

Managing people, more than most other areas of management, is contextual; HR managers should consider factors such as culture, stakeholders, decision processes, markets, organization, and the state.

**Evidence-Based Management**

To the extent that research findings are incorporated into practice, managers at all levels will decrease inefficiencies; currently, many optimal solutions are being neglected.

**Excellence Characteristics**

Excellence is not a static destination; rather, it is an attitude and a pursuit where there are many ways individual or organizational actors can realize their potential and grow continuously.
<table>
<thead>
<tr>
<th>Theory</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>Expectancy Theory</td>
<td>Aligning individual goals with organizational objectives is critical to effective management; there are several components of successful alignment: expectancy, instrumentality, and valence.</td>
</tr>
<tr>
<td>Experiential Learning Theory and</td>
<td>The management process involves creative tension among four learning modes—based on dual dialectics of grasping and transforming experience—within a dynamic learning cycle that is responsive to contextual demands.</td>
</tr>
<tr>
<td>Learning Styles</td>
<td></td>
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<tr>
<td>Fairness Theory</td>
<td>Actions seem unfair when people feel that those actions <em>would</em> have been better if the relevant person <em>could</em> have and <em>should</em> have acted differently.</td>
</tr>
<tr>
<td>Firm Growth</td>
<td>The administrative and management structures of a firm play vital roles in configuring and utilizing its resources, which in turn enables and constrains its growth trajectory.</td>
</tr>
<tr>
<td>First-Mover Advantages and Disadvantages</td>
<td>Being first to market carries a host of threats and opportunities; understanding the underlying mechanisms is essential for positive economic performance in new or substantially reorganized markets and industries.</td>
</tr>
<tr>
<td>Force Field Analysis and Model of</td>
<td>The composition of a dynamic “field” with driving and resisting forces influences intended, rational change on multiple levels and across different stages—unfreezing, movement, and refreezing.</td>
</tr>
<tr>
<td>Planned Change</td>
<td></td>
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<tr>
<td>Functions of the Executive</td>
<td>Individuals cannot achieve their aspirations independently; organizations are formed for cooperative purposes through inducements and contributions, communication and interaction, and accepted or legitimated authority relationships.</td>
</tr>
<tr>
<td>Game Theory</td>
<td>Managers need to behave strategically when their own rewards depend on decisions made by competitors or partners.</td>
</tr>
<tr>
<td>Gantt Chart and PERT</td>
<td>Various forms of critical path analyses can assist in effectively scheduling, organizing, and coordinating activities in time-constrained projects.</td>
</tr>
<tr>
<td>Garbage Can Model of Decision Making</td>
<td>Decisions that might appear arbitrary and chaotic should be understood in the context of disconnected problems, solutions, opportunities, and decision makers.</td>
</tr>
<tr>
<td>Genderlect and Linguistic Styles</td>
<td>Understanding how communication patterns are shaped by gender-related characteristics, and how they influence performance, is important for managers when interacting with internal and external stakeholders.</td>
</tr>
<tr>
<td>GLOBE Model</td>
<td>In each society, leaders are expected to act in ways that are compatible with the society’s cultural values.</td>
</tr>
<tr>
<td>Goal-Setting Theory</td>
<td>A powerful way to motivate employees is to give them specific, challenging goals.</td>
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<tr>
<td>Group Development</td>
<td>To be most effective, small groups must progress through a series of developmental stages each with their own tasks and challenges.</td>
</tr>
<tr>
<td>Group Polarization and the Risky</td>
<td>Group interactions will often enhance, rather than moderate, the average preexisting tendency of individual members, yielding more extreme decisions and actions.</td>
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<tr>
<td>Shift</td>
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</tr>
<tr>
<td>Group Punctuated Equilibrium Model</td>
<td>Timing is important when introducing changes to a team; habitual behavioral patterns are established in the first meeting, and groups are not susceptible to change until temporal milestones come up for review.</td>
</tr>
<tr>
<td>Groupthink</td>
<td>There are potential sources of dysfunctions in cohesive groups facing stressful decision situations as well as potential remedies for these dysfunctions.</td>
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<tr>
<td>Topic</td>
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<tr>
<td>High- and Low-Context Cultures</td>
<td>There are cross-cultural differences in the way people communicate meaning, which is a combination of information and inextricably bound up context.</td>
</tr>
<tr>
<td>High-Performance Work Systems</td>
<td>Human resource practices can be configured in a specific way to attain horizontal and vertical alignments and improve individual and organizational effectiveness.</td>
</tr>
<tr>
<td>High-Performing Teams</td>
<td>Applying a clinical approach to the study of teams allows us to develop a more in-depth understanding of potentially counterproductive interpersonal, intrapersonal, and organizational dynamics.</td>
</tr>
<tr>
<td>High-Reliability Organizations</td>
<td>A more mindful approach to managing structures, practices, and processes is advisable for an increasing number of organizations that must perform in complex, dynamic, and error-intolerant environments.</td>
</tr>
<tr>
<td>Human Capital Theory</td>
<td>People are as important as other types of resources; proper investments in human capital can result in improved performance at the individual, group, organization, and country levels.</td>
</tr>
<tr>
<td>Human Resource Management Strategies</td>
<td>Human resource management strategies will have greater positive impact when they elicit the workforce characteristics required to support the strategy of the organization.</td>
</tr>
<tr>
<td>Human Resources Roles Model</td>
<td>There are five roles that define expectations of what HR professionals should be, know, and do to deliver value: employee advocate, human capital developer, functional expert, strategic partners, and leader.</td>
</tr>
<tr>
<td>Humanistic Management</td>
<td>Managers need to treat workers and other stakeholders with dignity and sensitivity, attending to their psychological needs and “informal” social dynamics, to achieve ethical and sustainable success.</td>
</tr>
<tr>
<td>Hypercompetition</td>
<td>Competitive moves and responses can escalate to the point where traditional advantages, such as positioning and resource superiority, are no longer effective.</td>
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<tr>
<td>Image Theory</td>
<td>Professional managers create an image of what they want their organization's future to be, and decisions and subsequent actions are directed toward ensuring that the image becomes reality.</td>
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<tr>
<td>Individual Values</td>
<td>Individuals’ value priorities relate to their attitudes, behaviors, and roles; by developing greater awareness of one’s own and others’ values, it is possible to influence people in desirable directions.</td>
</tr>
<tr>
<td>Influence Tactics</td>
<td>Organizational participants employ a finite and identifiable set of behaviors which are more successful at gaining compliance from others when appropriately matched to their circumstances.</td>
</tr>
<tr>
<td>Informal Communication and the Grapevine</td>
<td>Emergent, unofficial, and unsanctioned information flows, notably gossip, occur in predictable ways to serve different functions which have the potential to be managed.</td>
</tr>
<tr>
<td>Information Richness Theory</td>
<td>Information channels differ in information carrying capacity; effective managers select channels to fit the messages that they want to convey.</td>
</tr>
<tr>
<td>Innovation Diffusion</td>
<td>Forces within organizational or individual collectivities cause management ideas, practices, or techniques to be perceived as innovations and to spread more or less quickly, extensively, and effectively among collectivity members.</td>
</tr>
<tr>
<td>Innovation Speed</td>
<td>Managers should embrace time orientation and, when appropriate, align their innovation strategy, process, staff, and structure to prudently speed up.</td>
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<tr>
<td>Institutional Theory</td>
<td>The adoption and retention of many organizational practices is often more dependent on powerful social pressures for conformity and legitimacy than technical pressures for economic performance.</td>
</tr>
<tr>
<td>Institutional Theory of Multinational</td>
<td>Organizations’ success in the management of cross-border operations is often determined by their ability to adapt to the institutional environments in which they operate.</td>
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<tr>
<td>Corporations</td>
<td></td>
</tr>
<tr>
<td>Integrative Social Contracts Theory</td>
<td>Confronting ethical problems in business demands the integration of universally applicable norms with specific standards that are voluntarily accepted in economic communities.</td>
</tr>
<tr>
<td>Interactional Model of Cultural Diversity</td>
<td>The existence of cultural diversity presents specific challenges and opportunities which, depending on several climate factors, can produce either positive or negative effects on organizational performance and societal well-being.</td>
</tr>
<tr>
<td>Interactionist Model of Organizational</td>
<td>Managers can have the most positive impact on organizational creativity by designing the work setting in such a way as to enhance individual and team creative behavior.</td>
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<tr>
<td>Creativity</td>
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<tr>
<td>Interorganizational Networks</td>
<td>Favorable structural positions within a group of organizations connected by common affiliations or exchange relations bring advantages, including greater social capital, over others of similar ability.</td>
</tr>
<tr>
<td>Intuitive Decision Making</td>
<td>Under the right conditions, intuition—or “trusting your gut”—can result in both fast and effective judgments.</td>
</tr>
<tr>
<td>Investment Theory of Creativity</td>
<td>Creativity is itself an investment activity in which personal and environmental resources are deployed to achieve novel, appropriate valued outputs.</td>
</tr>
<tr>
<td>Job Characteristics Theory</td>
<td>Employees’ psychological states and work effectiveness can be enhanced by designing jobs high in five key characteristics and ensuring that employees with appropriate personal qualities are assigned to these jobs.</td>
</tr>
<tr>
<td>Job Demands–Resources Model</td>
<td>Job resources can buffer the impact of job demands on strain, stress, and burnout and may foster employee engagement and performance.</td>
</tr>
<tr>
<td>Kaizen and Continuous Improvement</td>
<td>Organizations should engage in a continuous, meticulous drive for excellence across the enterprise to achieve lowest cost, highest quality, and best service to the customer.</td>
</tr>
<tr>
<td>Knowledge Workers</td>
<td>Knowledge workers play a central role in modern, technology-driven organizations; these highly trained, specialized, and connected employees must be managed appropriately.</td>
</tr>
<tr>
<td>Knowledge-Based View of the Firm</td>
<td>Firm-wide tacit capabilities form a firm's core; cultivation and refinement of these capabilities determine current and future firm vitality.</td>
</tr>
<tr>
<td>Large Group Interventions</td>
<td>Changing complex systems is more effective when system stakeholders, internal and external, are engaged in all aspects of the change process.</td>
</tr>
<tr>
<td>Lead Users</td>
<td>It pays to carefully identify, through a defined methodology, those cutting-edge users who really can foster a firm's ideation and new product development efforts.</td>
</tr>
<tr>
<td>Leader–Member Exchange Theory</td>
<td>A leader develops different exchange relationships with his or her subordinates which vary in quality and impact important outcomes.</td>
</tr>
<tr>
<td>Leadership Continuum Theory</td>
<td>The range of managerial choices during decision-making efforts can be conceptualized along a continuum, from autocratic to democratic approaches, and are more or less appropriate under different conditions.</td>
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<tr>
<td>Leadership Practices</td>
<td>Leadership is a set of identifiable skills and abilities that are available to anyone; leadership is not about who you are; it's about what you do.</td>
</tr>
<tr>
<td>Lean Enterprise</td>
<td>The application of seven core “lean” principles to complex enterprises requires a focus on the enterprise value proposition across all key stakeholders.</td>
</tr>
<tr>
<td>Learning Organization</td>
<td>Learning involves more than transferring information; it is embedded in ongoing social interactions and cyclical, multilevel practices and routines by which organizations notice, interpret, and manage their experience.</td>
</tr>
<tr>
<td>Level 5 Leadership</td>
<td>The pinnacle of executive leadership styles is that of a “Level 5” leader who embodies personal humility and strong and willful persistence in pursuing common goals and objectives.</td>
</tr>
<tr>
<td>Locus of Control</td>
<td>Managers can use their understanding of an individual's source of perceived power to effect an outcome to influence the individual's behavior, especially toward empowerment and planned change.</td>
</tr>
<tr>
<td>Logical Incrementalism</td>
<td>Strategic decisions are rarely brought about deliberately; they often emerge from an iterative yet logical process of proactively developing a course of action and reactively adapting to unfolding circumstances.</td>
</tr>
<tr>
<td>Management (Education) as Practice</td>
<td>Learning how to manage is best done by reflecting on current experience, informed by concepts, and usually in conversation with other managers.</td>
</tr>
<tr>
<td>Management by Objectives</td>
<td>All employees, in all levels of an organization, should know explicitly what they need to do to accelerate the implementation of their organization's strategic plan.</td>
</tr>
<tr>
<td>Management Control Systems</td>
<td>Organizational structure, procedures, practices, and norms—that is, controls—are integral to organizational functioning, effectiveness, and goal achievement.</td>
</tr>
<tr>
<td>Management Roles</td>
<td>How managers behave at work is influenced by predictable, multidimensional roles related to the context, content, and forms of managerial jobs that specify rights, duties, expectations, and norms.</td>
</tr>
<tr>
<td>Management Symbolism and Symbolic Action</td>
<td>Focusing on symbolic action reveals the importance of meaning making within processes of organizing and the related understanding of management as cocreating meaning.</td>
</tr>
<tr>
<td>Managerial Decision Biases</td>
<td>Systematic and predictable biases can lead to irrational decisions that are oftentimes outside of the individual’s own awareness.</td>
</tr>
<tr>
<td>Managerial Grid</td>
<td>There are two primary dimensions or orientations in leaders’ behavior—concern for production and concern for people—and this resultant leadership style impacts organizational effectiveness.</td>
</tr>
<tr>
<td>Managerialism</td>
<td>Managers wield great power and control over firms to the potential detriment of both narrow shareholder and broader societal interests.</td>
</tr>
<tr>
<td>Managing Diversity</td>
<td>Effective management of a demographically diverse workforce requires an integrated strategic approach incorporating recruitment, development, and retention initiatives.</td>
</tr>
<tr>
<td>Matrix Structure</td>
<td>Complex organizational structures can be designed to achieve goals of both specialization and scale economies along with coordination and product focus.</td>
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<tr>
<td>Meaning and Functions of Organizational Culture</td>
<td>People's behavior in organizations is guided by relatively shared meaning structures that influence how they make and give sense of themselves, their organization, and their workplace reality.</td>
</tr>
<tr>
<td>Modes of Strategy: Planned and Emergent</td>
<td>Strategic execution contains uncertainty that necessitates the balanced use of both proactive, explicitly planned strategy and flexible, reactive emergent strategies.</td>
</tr>
<tr>
<td>Moral Reasoning Maturity</td>
<td>Individual cognitive dynamics determine how people—including managers—understand, and make judgments and decisions in, ethical problems and issues involving moral dilemmas.</td>
</tr>
<tr>
<td>Multicultural Work Teams</td>
<td>Potential coordination difficulties between team members separated by culture, distance, and time zones need to be addressed and actively managed for optimal multicultural work team performance.</td>
</tr>
<tr>
<td>Multifirm Network Structure</td>
<td>A great deal of activity in the global economy is performed by groups of firms working together in well-defined network structures.</td>
</tr>
<tr>
<td>Multilevel Research</td>
<td>Organizational outcomes are the result of a confluence of effects emanating from different levels of analysis; managers must consider factors at multiple levels to improve understanding and influence.</td>
</tr>
<tr>
<td>Narrative (Story) Theory</td>
<td>Linear narratives are in interplay with other forms of storytelling, such as living stories and antenarratives, as one of the preferred sensemaking currencies of management and organizations.</td>
</tr>
<tr>
<td>Needs Hierarchy</td>
<td>Humans are motivated by unmet needs; these needs vary along a universal, prepotent hierarchy according to different stages in their lives and careers.</td>
</tr>
<tr>
<td>Neo-Institutional Theory</td>
<td>Managers need to be conscious of social pressures to follow other organizations in adopting new structural arrangements and assess their conditions and impact before making their own decisions.</td>
</tr>
<tr>
<td>Norms Theory</td>
<td>An individual's attitudes and behaviors are fundamentally shaped and guided by the attitudes and behaviors of other actors in that individual's social world.</td>
</tr>
<tr>
<td>Occupational Types, Model of</td>
<td>Analyzing fit between attributes of individuals and attributes of jobs and careers provides a system to parse a complex entity into categorized, manageable attributes to improve occupational congruence.</td>
</tr>
<tr>
<td>Open Innovation</td>
<td>Companies must open their innovation process to inflows and outflows of knowledge in order to leverage their research and development (R &amp; D) competencies and speed up their product, process, and technology development.</td>
</tr>
<tr>
<td>Organic and Mechanistic Forms</td>
<td>Mechanistic management systems, which facilitate decision making bureaucratically, are better suited for stable environments whereas organic management systems, applying more decentralized and fluid practices, are more appropriate for dynamic environments.</td>
</tr>
<tr>
<td>Organizational and Managerial Wisdom</td>
<td>A wisdom-based management paradigm goes beyond traditional information- and knowledge-based perspectives by applying philosophic insights across organizational levels to facilitate personal and professional success and enable it for others.</td>
</tr>
</tbody>
</table>
### Organizational Assimilation Theory
The processes by which newcomers become integrated into an organization is neither simple nor guaranteed and therefore should be properly facilitated to better anticipate and facilitate successful assimilation.

### Organizational Commitment Theory
Employees with greater organizational commitment (i.e., attachment to the work organization) are more effective, more motivated, and more likely to remain with the organization.

### Organizational Culture and Effectiveness
The cultural systems that evolve over time within organizations have important consequences for an organization’s survival and effectiveness.

### Organizational Culture Model
Organizational culture is a powerful, yet largely invisible, multilayered (deep assumptions, intermediate values and principles, visible artifacts) social force that is not easily understood or changed.

### Organizational Culture Theory
To understand how and why organizations function and the nature of employees’ work experiences, researchers have to go beyond structure, size, technology, job descriptions, reporting relationships, and so on to also study culture.

### Organizational Demography
Demographic composition—for example, the gender, tenure, and functional backgrounds—of organizational units matter for understanding organizational dynamics.

### Organizational Development
Organizational change can occur successfully provided it is planned, supported by organizational leaders, and involves organizational members and intensive effort to sustain the transition.

### Organizational Ecology
Organizational dynamics can be fully understood only when all like organizations in a market are examined over time; evolving interdependence among organizations shapes and is shaped by social structure.

### Organizational Effectiveness
There is no one single theory of effectiveness; rather, there are multiple models, each of which has a legitimate claim to being the key approach for defining and determining the effectiveness of an organization.

### Organizational Identification
The sense of “us-ness” associated with self-definition in terms of shared organizational or subunit identity provides a strong and distinct basis for key forms of organizational behavior.

### Organizational Identity
A shared understanding of “who we are” as an organization—what is central, enduring, and distinctive—is essential for effective organizational self-management, over time and across situations.

### Organizational Learning
Managers need to recognize the many complications brought by the experiential nature of organizational learning and their implications for risk taking, feedback, interpersonal networks, and learning curves.

### Organizational Socialization
Socialization processes that are strategically aligned and properly executed to integrate new members and influence existing members can benefit both employee well-being and organizational effectiveness.

### Organizational Structure and Design
To attain its goals, an organization has to have an organizational structure to provide coordination and control; core structural dimensions must be designed to fit multiple contingency factors.

### Organizationally Based Self-Esteem
An individual’s self-esteem can be shaped by the work setting, affecting the individual’s view of how capable and valuable he or she is as a member of the organization.
### Appendix B

<p>| <strong>Participative Model of Decision Making</strong> | The degree of participation in decision making can be determined by applying multidimensional criteria that, when assessed, result in different approaches for soliciting and using employees’ input. |
| <strong>Path-Goal Theory of Leadership</strong> | Situational factors determine the choice of optimal leader behaviors designed to help remove obstacles and motivate employees as they strive to achieve work-related goals. |
| <strong>Patterns of Innovation</strong> | Firms shift from product to process innovation as their industries evolve and their productive processes become increasingly specialized. |
| <strong>Patterns of Political Behavior</strong> | Recognizing the patterns of political behavior in organizations, frequently undervalued by management theories, helps managers understand and influence a wide range of organizational phenomena. |
| <strong>Personal Engagement (at Work) Model</strong> | Workers invest degrees of themselves into role performances based on the extent to which certain psychological conditions are met. |
| <strong>Positive Organizational Scholarship</strong> | Human, organizational, and societal well-being is facilitated by focusing on the generative organizational dynamics that lead to developing human strength, producing resilience and restoration, fostering vitality, and cultivating extraordinary individuals. |
| <strong>Practice of Management, The</strong> | The practice of management is a polycentric configuration of related elements that should be viewed as a whole so that it can be taught, learned, institutionalized, and executed systematically. |
| <strong>Principled Negotiation</strong> | Parties in a negotiation can follow a specified integrative process manifest in five major components—such as focusing on interests, not positions—to achieve an agreement that maximizes joint gain. |
| <strong>Principles of Administration and Management Functions</strong> | Management consists of the same fundamental functions and activities—planning, organizing, commanding, coordinating, controlling—in all kinds of organizations irrespective of their production or formal affiliation. |
| <strong>Process Consultation</strong> | Building a collaborative relationship between consultant and client helps the client perceive, understand, and act on process events to think out and work through problems. |
| <strong>Process Theories of Change</strong> | Managers need to understand how and why organizational change unfolds over time and the different motors or mechanisms that drive the process. |
| <strong>Product Champions</strong> | The product champion role of identifying with an innovation and pushing it through despite personal risks is important to mediate the political process of change in complex organizations. |
| <strong>Product-Market Differentiation Model</strong> | Managers need to relate a firm’s product-market engagements with its general strategic direction; growth strategies include expanding or developing markets and diversifying or developing new products. |
| <strong>Profiting From Innovation</strong> | An innovator must develop a commercialization strategy that avoids the sharing of undue value with the owners of key complementary assets. |
| <strong>Programmability of Decision Making</strong> | Some decision situations faced by managers can be programmed (routinized and modeled) whereas others involve some fundamental uncertainties and are not amenable to processing by computer systems. |
| <strong>Prospect Theory</strong> | People evaluate the potential outcomes of risky choices as changes from their current situation and take more risk when facing potential losses than when facing potential gains. |</p>
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<th>Appendix B</th>
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</table>

<p>| Proximal and Boundaryless Careers | The changing workplace and nature of work necessitates new ways for individuals to manage their careers and new ways for organizations to offer career management options. |
| Psychological Contract Theory | Understanding of employees’ beliefs about their exchange relationship with the employer is important in fostering positive employee attitudes and behaviors. |
| Psychological Type and Problem-Solving Styles | People with different personality preferences may have complementary strengths (and weaknesses) that lead to distinctive, potentially valuable approaches to problem solving. |
| Punctuated Equilibrium Model | The process of organizational change is marked by long periods of incremental or evolutionary change “punctuated” by sudden bursts of radical or revolutionary change; each needs to be managed differently. |
| Quality Circles | Voluntary improvement activities in groups are powerful tools for quality management in an integrated system oriented toward the development of the enterprise. |
| Quality Trilogy | Managers need to plan for quality, control performance variations, and enhance systems’ capability to excel on all dimensions of quality all the time. |
| Quantum Change | Large-scale change should be carried out rapidly across an organization’s structures, systems, and values when initiating or responding to a transformative event. |
| Reinforcement Theory | Employee behavior is a function of both antecedents (e.g., training, job redesign) and contingent consequences (e.g., rewards, punishment); behavior increases in strength and/or probability when positively reinforced. |
| Resource Dependence Theory | To understand organizational choices and actions, consider its environment and particularly the constraints emanating from transaction partners. |
| Resource Orchestration Management | Managerial actions of structuring, bundling, and leveraging resources, along with the synchronization of these actions, affect competitive advantage. |
| Resource-Based View of Firm | Managers can attain competitive advantages by exploiting the unique resources and capabilities to which their firms have access. |
| Role Theory | Roles, created at the intersection of social structure and individual behavior, enable consistent performances across individuals and situations. |
| Schemas Theory | Individuals interpret, evaluate, and apply information and knowledge by organizing them into cognitive structures which can be managed to facilitate understanding and shape behavior. |
| Scientific Management | Conflicts between managers and/or employers and employees need to be economically resolved through proper incentives and precisely designed job structures, content, processes, and targets. |
| Self-Concept and the Theory of Self | Construals and understandings of self play important functions in individual and organizational behavior. |
| Self-Determination Theory | Two different motivation types—autonomous and controlled—have very different consequences and are prompted by different managerial behaviors. |
| Self-Fulfilling Prophecy | Managers get the employees they expect; managers can boost effectiveness by expecting more of their subordinates. |
| Sensemaking | Developing retrospective images and words that rationalize what people are doing makes meaningful the social action taking place in an organization and illuminates how organizations work, change, and grow. |</p>
<table>
<thead>
<tr>
<th>Theoretical Framework</th>
<th>Description</th>
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<tbody>
<tr>
<td>Servant Leadership</td>
<td>Leaders must make their top priority that of providing followers with the tools and support they need to develop mutual trust and reach their full potential.</td>
</tr>
<tr>
<td>Seven-S Framework</td>
<td>Conceptualizing organizations’ main elements in terms of interdependent, mutually reinforcing soft- and hard factors provides a powerful tool for diagnosing and analyzing organizational performance.</td>
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<tr>
<td>Situational Theory of Leadership</td>
<td>Managers can best lead and develop subordinates by using specified leadership styles to match a subordinate’s level of ability and commitment.</td>
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<tr>
<td>Six Sigma</td>
<td>Through a specified process of variation and defect reduction, organizations can simultaneously improve the quality of process outputs, increase customer satisfaction, and reduce waste, time, and costs.</td>
</tr>
<tr>
<td>Social Cognitive Theory</td>
<td>Human agency operates in concert with social and structural factors in determining organizational well-being and productivity.</td>
</tr>
<tr>
<td>Social Construction Theory</td>
<td>Social interaction influences the creating and institutionalizing of taken-for-granted knowledge, practices, and structures that can both enable and constrain activities.</td>
</tr>
<tr>
<td>Social Entrepreneurship</td>
<td>Entrepreneurship principles are applicable to multiple forms of (social) value creation which are not necessarily independent of or contrary to but instead can complement economic value creation.</td>
</tr>
<tr>
<td>Social Exchange Theory</td>
<td>Social systems can be understood as sets of interdependent economic and noneconomic transactions and relationships; managers can facilitate positive, cooperative exchange relations to produce benefits and limit costs.</td>
</tr>
<tr>
<td>Social Facilitation Management</td>
<td>The social context created by managers and coworkers can augment or reduce employee performance.</td>
</tr>
<tr>
<td>Social Identity Theory</td>
<td>Individuals’ identities are influenced by their perceived social group memberships; classifications and comparative perspectives of in- and out-groups generate meaning and shape members’ self-concept, attitudes, values, and behavior.</td>
</tr>
<tr>
<td>Social Impact Theory and Social Loafing</td>
<td>The magnitude of social impact is based on the strength, immediacy, and number of sources of social influence; managers need to particularly understand and reduce factors for social “loafing.”</td>
</tr>
<tr>
<td>Social Information Processing Model</td>
<td>People’s attitudes and behavior at work are affected both by what others do and say as well as by the need to rationalize their own past behavior.</td>
</tr>
<tr>
<td>Social Movements</td>
<td>Challenger groups are often sources of innovation in organizations, influencing managers to overcome the status quo and developing the energy and resources needed for transformative change.</td>
</tr>
<tr>
<td>Social Network Theory</td>
<td>Organizations generally exist for the purpose of establishing interaction and exchange with other entities, and they do so by bounding and coordinating the interactions of multiple individuals to achieve ends not achievable separately.</td>
</tr>
<tr>
<td>Social Power, Bases of</td>
<td>Managers must appropriately acquire and use bases of power—referent, expert, legitimate, reward, and coercive—if they are to exercise effective leadership.</td>
</tr>
<tr>
<td>Sociotechnical Theory</td>
<td>People and technology interact in complex ways such that their implications must be considered together to optimize performance.</td>
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<tr>
<td>Topic</td>
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<tr>
<td>Stages of Creativity</td>
<td>Creativity results from a process, each stage of which can be facilitated or frustrated by managers.</td>
</tr>
<tr>
<td>Stages of Innovation</td>
<td>The process of developing and implementing new ideas cannot be controlled, but managers can learn to maneuver the process.</td>
</tr>
<tr>
<td>Stakeholder Theory</td>
<td>Effectively managing relationships with internal and external parties who impact and are impacted by an organization is a primary responsibility of managers and is central to value creation.</td>
</tr>
<tr>
<td>Stewardship Theory</td>
<td>By pursuing cooperative, pro-organizational outcomes, stewards maximize their own utility as well as the performance of the organization.</td>
</tr>
<tr>
<td>Strategic Alliances</td>
<td>Strategic alliances can facilitate effective cooperation between firms by combining needed resources to achieve mutually compatible objectives.</td>
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<tr>
<td>Strategic Contingencies Theory</td>
<td>Intraorganizational power is derived from a subunit’s ability to support the critical tasks of other subunits in a way that no others can.</td>
</tr>
<tr>
<td>Strategic Decision Making</td>
<td>Managers can improve the chances of making successful strategic decisions by choosing the right decision-making processes across various levels of the organization.</td>
</tr>
<tr>
<td>Strategic Entrepreneurship</td>
<td>Strategy and entrepreneurship go together—successful entrepreneurship requires attention to strategy, and strategy is inherently entrepreneurial; opportunity-seeking and advantage-seeking are processes that should be considered jointly.</td>
</tr>
<tr>
<td>Strategic Flexibility</td>
<td>In a rapidly changing business environment, an organization’s capability for attention, assessment, and action in balancing commitment and timely change contributes to sustainable, positive performance.</td>
</tr>
<tr>
<td>Strategic Frames</td>
<td>Strategic frames—distinct cognitive constructs anchored in social schema and sensemaking—organize collective interpretations and support prospective guides to action.</td>
</tr>
<tr>
<td>Strategic Groups</td>
<td>By identifying the emergence and persistence of competitive structure within an industry, members of a strategic group can formulate their own strategies to remain competitive.</td>
</tr>
<tr>
<td>Strategic Information Systems</td>
<td>The strategic application of information systems to align investments and support an organization’s business model can provide a source of competitive differentiation.</td>
</tr>
<tr>
<td>Strategic International Human Resources Management</td>
<td>An integrative framework of five major factors explains how human resource management issues affect the success of a firm that is operating in an international environment.</td>
</tr>
<tr>
<td>Strategic Profiles</td>
<td>An accurate, comprehensive profile of a firm’s configuration, competitive strategy, and its industrial environment is useful in making strategic decisions.</td>
</tr>
<tr>
<td>Strategies for Change</td>
<td>Gaining organizational alignment with an external environment where change seems the only constant requires managers and leaders to implement systematic strategies for change.</td>
</tr>
<tr>
<td>Strategy and Structure</td>
<td>The relationship between strategy and structure is a reciprocal one where each should fit and complement one another optimally.</td>
</tr>
<tr>
<td>Strategy-as-Practice</td>
<td>Strategy is a kind of work; it is something that people do, rather than something that organizations have.</td>
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<tr>
<td>Theory</td>
<td>Description</td>
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<tr>
<td>Structuration Theory</td>
<td>While structural properties of societies are real, they depend upon regularities of social reproduction; structure exists only in and through the activities of human agents.</td>
</tr>
<tr>
<td>Substitutes for Leadership</td>
<td>There are multiple contextual factors that enhance, neutralize, or substitute for relationship-oriented versus task-oriented leadership across three categories: subordinate, task, and organizational characteristics.</td>
</tr>
<tr>
<td>SWOT Analysis Framework</td>
<td>Assessing internal and external strategic issues enables managers to understand how current and future strengths can be leveraged to realize opportunities and how weaknesses can slow progress or magnify organizational threats.</td>
</tr>
<tr>
<td>Systems Theory of Organizations</td>
<td>Interventions to one part of an organizational system can affect other interrelated, interacting parts in intended as well as unintended ways, possibly undoing or otherwise altering the original interventions.</td>
</tr>
<tr>
<td>Tacit Knowledge</td>
<td>All knowledge used (in organizations) has a tacit dimension that carries implications for creating, storing, transferring, coordinating, and applying knowledge.</td>
</tr>
<tr>
<td>Technological Discontinuities</td>
<td>Nonparadigmatic changes in value creation and capturing pose fundamental challenges to incumbent organizations and can radically reshape industry structures.</td>
</tr>
<tr>
<td>Technology Acceptance Model</td>
<td>The use of a technology is significantly and primarily influenced by the user perceptions of its ease-of-use and usefulness.</td>
</tr>
<tr>
<td>Technology Affordances and Constraints Theory (of MIS)</td>
<td>The uses and outcomes of information systems are best understood in terms of dynamic relationships between the individual or organizational users and the technology features.</td>
</tr>
<tr>
<td>Technology and Complexity</td>
<td>Effective organizational responses to complex challenges are achieved through dynamic and holistic technologies cocreated by designers, implementers and users, which in turn influence organizational structure and social processes.</td>
</tr>
<tr>
<td>Technology and Interdependence/Uncertainty</td>
<td>Managers need to protect an organization’s technical core from environmental uncertainty and optimize coordination by matching its structure to technological and inter-unit interdependencies.</td>
</tr>
<tr>
<td>Technology and Programmability</td>
<td>The nature of technology used by a firm—the degree to which the production system is controllable and predictable—has important ramifications for how it should be structured.</td>
</tr>
<tr>
<td>Technology S-Curve</td>
<td>The management of, and transition from, a technology is influenced by multiple actors over time that affect technology performance through slow initial improvement, rapid increase, and eventual maturity.</td>
</tr>
<tr>
<td>Theory Development</td>
<td>Strong theories offer better causal explanations of important outcomes; for the majority of management theorizing, the objective is to answer, within specified contextual conditions, What causes what and why?</td>
</tr>
<tr>
<td>Theory of Constraints</td>
<td>Managers can structure their thinking about how to improve system performance by examining its component processes and sequentially addressing the most significant constraints.</td>
</tr>
<tr>
<td>Theory of Cooperation and Competition</td>
<td>Management involves creating and facilitating cooperation among the organization’s members while minimizing competitive and individualistic efforts.</td>
</tr>
<tr>
<td>Theory of Emotions</td>
<td>Emotion is a diverse multistage process, not a unitary experience, with each stage having important implications for organizational life.</td>
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<tr>
<td>Theory of Organizational</td>
<td>An individual’s perception of and desire to work for an organization is influenced by organizational, individual, and job or task characteristics; organizations can manage these to increase their attractiveness to potential applicants.</td>
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<tr>
<td>Attractiveness</td>
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<tr>
<td>Theory of Reasoned Action</td>
<td>Behavioral intentions, influenced by subjective norms and attitude toward the act, are the most proximal and reliable predictors of whether a person will engage in a specific volitional act.</td>
</tr>
<tr>
<td>Theory of Self-Esteem</td>
<td>Self-esteem is a complex construct that is potentially developable and may be related to a number of important work-relevant variables.</td>
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<tr>
<td>Theory of the Interesting</td>
<td>It is more important for a theory to be interesting than true; challenging some assumptions can help achieve this.</td>
</tr>
<tr>
<td>Theory of Transfer of Training</td>
<td>To achieve transfer of training, designers and trainees must actively pursue those training elements and activities known to foster generalization, maintenance, and adaptation of learned skills and knowledge.</td>
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<tr>
<td>Theory X and Theory Y</td>
<td>Manager’s assumptions about human behavior, whether pessimistic (theory x) or optimistic (theory y), tend to result in corresponding patterns of behaviors; managers should assist employees in reaching their full potential.</td>
</tr>
<tr>
<td>Total Quality Management</td>
<td>Organizations can apply the philosophy and specified principles of total quality management to reduce costs, improve reliability, and enhance customers’ and other stakeholders’ satisfaction.</td>
</tr>
<tr>
<td>Trait Theory of Leadership</td>
<td>Leadership emergence and effectiveness is a function of the exceptional qualities, abilities, or traits—such as personality and intelligence—which one possesses.</td>
</tr>
<tr>
<td>Transaction Cost Theory</td>
<td>Firms organize their relationships with customers, suppliers, employees, and partners to economize on the costs of transacting business; these relate to search, communication, bargaining and contracting, and enforcing activities.</td>
</tr>
<tr>
<td>Transfer of Technology</td>
<td>Effective transfer of technical, organizational, and operational knowledge between providers and recipients is a function of the engaged entities’ characteristics, their interactions and context, and technology and transfer mechanisms.</td>
</tr>
<tr>
<td>Transformational Theory of</td>
<td>Inspiring employees is a better way to achieve your goals than motivating them with rewards and punishments; this power comes from idealized influence, inspirational motivation, intellectual stimulation, and individualized consideration.</td>
</tr>
<tr>
<td>Leadership</td>
<td></td>
</tr>
<tr>
<td>Transnational Management</td>
<td>Managers must recognize the increased complexity and conflicting demands of the global environment to simultaneously cultivate multinational flexibility, global scale efficiency, and worldwide learning capability.</td>
</tr>
<tr>
<td>Triple Bottom Line</td>
<td>Value creation is multidimensional—comprising “people, planet, and profit” considerations—with money alone being a poor measure of both positive and negative externalities.</td>
</tr>
<tr>
<td>Trust</td>
<td>Trust can be defined and measured, has several key antecedents that apply to multiple organizational levels, and can be managed based on attention to several factors.</td>
</tr>
</tbody>
</table>
Two-Factor Theory (and Job Enrichment)  There are two clusters of variables that influence humans’ motivation to work; the first motivates, the second can potentially demotivate.

Type A Personality Theory  Managers who manifest unmitigated “Type-A” behavior of high-achievement workaholics, especially anger and hostility, can have a negative long-term impact on themselves as well as their subordinates, groups, and organizations.

Typology of Organizational Culture  Organizational success depends on creating an environment that shapes the norms and behavior of participants in ways that will serve the organization well as circumstances and competition change.

“Unstructured” Decision Making  Processes and models for decision making can be developed for unfamiliar or unprecedented conditions in which accepted decision-making methods and solutions are unsuitable.

Upper-Echelons Theory  Organizations are reflections of their most senior level managers; top management team characteristics and actions explain strategic and performance consequences of the organization as a whole.

Value Chain  A firm’s primary and support activities, from purchasing raw materials to distributing products, must be systematically analyzed, organized, selected, and optimized for customer value creation and competitive advantage.

Virtual Teams  Virtual teams, whose members are separated by distance and time and who use technology to communicate, face unique challenges and should not be managed just like proximate teams.

Work Team Effectiveness  Teams are multifaceted, complex, and dynamic entities that create unique management challenges but offer the potential for superlative performance.
Index

Entry titles and their page numbers are in bold. Page numbers preceded by 1: are in volume 1, and page numbers preceded by 2: are in volume 2.

Abernathy, William J., 2:585
Ability, 1:300, 2:905
Ability attributions, 1:51, 1:52
Abrahamson, Eric, 1:374–375
Absorption, 2:772
Absorptive capacity, 1:441–442
Abstract conceptualization, 1:277, 1:278 (figure)
Academic-practitioner collaboration and knowledge sharing, 1:1–4
Acceptance, zone of, 1:293
Access-and-legitimacy perspective, 1:479–480
Accommodating, 1:140
Acculturation:
defined, 1:5
interactional model of cultural diversity, 1:392
modes of, 1:392
psychological, 1:5
strategies, 1:6, 1:7 (figure)
Acculturation theory, 1:4–8, 1:7
(figure)
Accumulated adoption, 1:376, 1:377
Achievement motivation theory, 1:8–11
Achievement-oriented behaviors, 2:581
Acquired motives theory, 1:8
Actants, 1:21
Action, 1:19, 1:210, 2:782
Action learning, 1:11–14, 1:455
Action research (AR), 1:14–18
academic-practitioner collaboration, 1:2
data-gathering phases, 1:14–15
engaged scholarship versus, 1:236
evaluation process, 1:17
organizational development, 2:543
Active experimentation, 1:277, 1:278
(figure)
Active management by exception, 2:897
Activities:
formal, 1:465
informal, 1:464–465
primary, 2:924
support, 2:925
Activity-on-arrow diagrams, 1:304
Activity-on-node diagrams, 1:304–306, 1:305 (figure)
Actor-network theory (ANT), 1:18–22
Actor-observer bias, 1:51, 1:52
1:109, 1:110
Actors, 1:213, 1:214, 2:671
Adams, John Stacey, 1:249–250, 1:251–252
Adaptability, 2:873
Adaptation:
continuous and routinized change, 1:153
defined, 1:5
local, 2:613
positive organizational scholarship, 2:594
process theories of change, 2:613
transaction cost theory, 2:890
See also Acculturation theory
Adaptive structuration theory (AST), 1:22–25
Adhocracy organizations, 1:124–125
Adjourning stage, 1:301, 1:320
Adjustment phase, 2:524–525
Adler, Nancy, 1:174
Adler, P. S., 1:416
Administration. See Principles of administration and management functions
Administrative Behavior (Simon), 1:80–81
Administrative innovations, 1:218, 1:219–221
Administrative man, 1:81
Adoption:
accumulated, 1:376, 1:377
ceremonial, 1:375, 1:376–377, 1:380
image theory, 1:362, 1:363
innovation diffusion, 1:376
stages of innovation, 2:760–761
technology adoption S-curve, 2:846, 2:847
Adoption decisions, 1:362, 1:363, 1:376
Adoption sequence, 1:373
Adorno, Theodor, 1:166
Advantageous inequty, 1:249–250, 1:251–252
Advisory approach, 2:579
Advocates, employee, 1:350
Aesthetics, 2:521–522
AET. See Affective events theory
Affect, 1:137, 1:231, 1:238
Affect infusion model, 2:861
Affect theory, 1:25–30
Affect-as-information theory, 2:861
Affect-driven behavior, 1:29
Affective commitment, 2:527, 2:557
Affective diversity, 2:860
Affective events theory (AET), 1:28–30, 2:860
Affective leader-member relations, 1:149
Affective mechanisms, 2:593
Affective responses, 2:865
Affordable loss principle, 1:239
After-sales service, 2:924
Agency, 2:745, 2:786
Agency costs, 1:30–31
Agency locus, 2:714
Agency theory, 1:30–34
American Society for Quality
Altman, Irwin,
Alters,
Alpha changes,
Allison, Graham,
Ambidexterity,
Amabile, Teresa:
Altruism,
964
Index
Agent-based models, 2:818–819
Agentic mechanisms, 2:593
Aggressiveness, competitive, 1:243
Agreeableness, 1:76
Agreement, binding, 1:301–302
AHP. See Analytic hierarchy process model
AI model. See Appreciative inquiry model
Air traffic control teams, 2:810
Airline industry, 1:99, 2:827, 2:923–924
Alban, Billie T., 1:426
Albert, J. D., 1:136, 1:137
Albert, Stewart, 2:559, 2:560, 2:561
Alderfer, Clayton, 1:254, 1:255
Alertness to new opportunities, 1:203, 1:204, 1:205, 1:237, 1:242
Alienation, 1:200–201
Alignment, 1:62, 1:336–337
Allen, Natalie Jean, 2:527
Alliances:
— bilateral contract-based, 2:769
cross-border, 2:793
equity, 2:769
— non-equity, 2:769
— strategic, 2:769–772
— unilateral contract-based, 2:769
Allison, Graham, 1:81
Alpha changes, 1:290–291
Alters, 2:743–744
Altman, Irwin, 1:319, 1:320
Altruism, 2:724
Amabile, Teresa:
— componential theory of creativity, 1:134, 1:135 (figure), 1:137–138
expectancy theory, 1:273
— stages of creativity, 2:756, 2:757
— stages of innovation, 2:759
Ambidexterity, 1:484, 2:643, 2:784, 2:827
American Society for Quality Control, 2:879
American Telephone and Telegraph Company, 1:8–9
AmericaSpeaks, 1:425, 1:426
Amotivation, 2:687
Analysis, level of, 1:498–499
Analytic hierarchy process model (AHP), 1:34–36
Analytical and sociological paradigms, 1:36–41
context and contribution, 1:38–39
functionalist paradigm, 1:36, 1:37–38, 1:37 (figure)
interpreative paradigm, 1:36, 1:37 (figure), 1:38
— philosophy and paradigms, 1:36–37
radical humanist paradigm, 1:36, 1:37 (figure), 1:38, 1:40
radical structuralist paradigm, 1:36, 1:37 (figure), 1:38, 1:40
Analyzers, 2:796
Anarchy, organized, 1:307–308
Anchoring, 1:82, 1:471
Ancour, 1:82
— Anchors, career. See Career stages and anchors
Anderson, Philipp, 2:825–826
Andrews, Kenneth, 1:96
Ang, Soon, 1:175, 1:176, 1:177
Anger, 1:473, 2:911
Ansoff, H. Igor, 2:619–621, 2:796
ANT. See Actor-network theory
Antecedents, 2:655, 2:657
Antenarrative, 2:501, 2:502
Anticipatory phase, 2:524
Anticipatory principle, 1:42
Anticipatory socialization, 2:568
Antonakis, John, 2:898
Appealing, 1:140
Application, scholarship of, 1:234
Appraisal:
— cognitive, 2:860, 2:871
— performance, 1:458–459, 1:460
— primary, 2:860
— self-appraisal, 2:684–685
Appreciative inquiry (AI) model, 1:41–44
— delivery/destiny, 1:42–43
— design, 1:42
— discovery, 1:42
— dream, 1:42
— four-dimensional model, 1:42–43
— method, 1:42–43
— principles, 1:41–42
Appreciative Inquiry Summit, 1:43, 1:425, 1:426
Appropriability, 2:622–623
Appropriation, 1:23–24
AR. See Action research
Aravind Eye Care, 2:722
Arbitrage, 1:203–204, 1:241
Archetypes, organizational, 2:652
Architectural innovation, 1:44–45
Argyres, Nicholas, 2:891
Argyris, Chris:
— double loop learning, 1:210, 1:211, 1:212
— organizational development, 2:544
— psychological contract theory, 2:636–637
— theory x and theory y, 2:875
Arikan, Asli, 2:669
Aristotle, 2:501
Aronson, Elliot, 1:118
Arrow, Holly, 1:327
Art of Japanese Management, The (Pascale & Athos), 2:703
Arthur, Michael, 2:633
Artifacts, 1:485, 2:531
ASA model. See Attraction-selection-attrition model
Asch, Solomon E., 1:46–47
Asch effect, 1:46–47
Asea Brown Boveri (firm), 1:483
Ashforth, Blake, 2:557, 2:730, 2:731
Aspiration reference point model, 2:563
Aspirations. See Goals
Assertiveness, 1:312, 1:313, 1:367, 2:886–887
Assessment, 1:112–113, 2:782, 2:800
Asset orchestration model, 2:664–665
Assets, complementary, 2:623–624
Assimilation, 1:6, 2:524–526
Association needs, 1:291–293, 1:294
AST. See Adaptive structuration theory
Astley, Graham, 2:774
Aston group, 2:772
Athos, Anthony, 2:702, 2:703
Attending, 2:822
Attention, 2:782
Attention theory, 1:74
Attitudes:
— defined, 1:230–231
job, 2:737, 2:738, 2:739
Behavioral theory of the firm (BTF), 1:72–76, 2:563, 2:565

*Behavioral Theory of the Firm, A* (Cyert & March), 1:72, 1:73

Behaviorist theory of motivation, 1:254

Beliefs, normative, 2:866

Belongingness needs, 2:503

Benevolence, 2:905

Benson, J. K., 1:190, 1:191

Berger, Peter, 2:717, 2:718

Berle, Adolf A., 1:31, 1:477–478

Best alternative to a negotiated agreement (BATNA), 2:601

Best TQM practices, 2:881–882

Beta changes, 1:291

*Beyond Culture* (Hall), 1:333–334

Biases:

actor-observer, 1:51, 1:52, 1:109, 1:110

attribution, 1:109, 1:110

bounded rationality and satisficing, 1:82

causal attribution theory, 1:109, 1:110

cognitive, 2:613

confirmation, 1:82, 1:257, 1:259, 1:472

ego-centric, 1:472

hindsight, 1:82

individual, 2:776

managerial decision, 1:470–474

process theories of change, 2:613

self-concept and the theory of self, 2:684–685

self-serving, 1:51, 1:52, 1:109, 1:110, 1:472

strategic decision making, 2:776

success/survivor, 1:285

Biddle, Bruce, 2:673

Big Five personality dimensions, 1:76–80

job performance, 1:78–79

origins and boundary conditions, 1:77

other frameworks and traits, 1:77–78

other management topics, 1:79–80

psychological type and problem-solving styles, 2:639–640

trait theory of leadership, 2:883

Bijker, Wiebe, 2:719

Bilateral contract-based alliances, 2:769

Binding agreement, 1:301–302

Biotechnology industry, 2:891

Bird-in-hand principle, 1:239

Black Belts, 2:709

Black box of strategic HRM, 1:337, 1:345

Black-Scholes option pricing formula, 2:739

Blade.org, 1:495, 1:496

Blair, Margaret, 1:38

Blake, Robert R.:

conflict handling styles, 1:140

managerial grid, 1:474–475, 1:476–477

situational theory of leadership, 2:705–706

Blanchard, Kenneth, 1:151, 2:704, 2:706

Blanton, Buddy, 1:436

Blau, Peter, 2:724

Blind variation and selective retention. See BVS theory of human creativity

Blindness, inattentional, 1:472

Bluedorn, Alan, 2:554

Boards of directors, 1:32, 1:34, 2:904

Boeing, 2:624–625

Bolino, Mark, 1:107

Bond, Michael Harris, 1:181–182

Bond strength, 2:884

Bonding, 1:31

Bonebright, Denise A., 1:321

Boomerang effects, 2:510

Boot camp, 2:566–567

Bootstrapping, 1:83

Bordia, Prashant, 1:326–327

Borgatti, Stephen, 2:745

Bossel's systems-based orienter framework, 2:649–650

Boston Consulting Group. See BCG Growth-Share Matrix

Boulding, K. E., 2:817–818

Boundaries, 2:716

Boundaryless careers. See Protean and boundaryless careers

Bounded awareness, 1:472

Bounded rationality and satisficing (behavioral decision-making model), 1:80–85

automatic information processing, 1:83

clinical synthesis, 1:84

clinical-actuarial controversy, 1:83–84

complexity theory and organizations, 1:130–131

fast and frugal heuristics, 1:83

heuristics in continuous environments, 1:82–83

improper linear models, 1:83

organic and mechanistic forms, 2:519

paternalistic intervention, 1:84

prediction markets, 1:84

rationality and its limits, 1:80–82

statistical groups, 1:84

theory of organizational attractiveness, 2:862

Bounded willpower, 1:472

Boyatzis, Richard, 1:8–9, 1:227, 1:228

Boyer, Ernest L., 1:234, 1:235, 1:236

Brainstorming, 1:85–87

Brandenburger, Adam, 1:127

Brands, 2:904

Braverman, Harry, 2:837

Breach, psychological contract, 2:635, 2:636

Breakdowns, 2:612–613, 2:614, 2:615

Bricolage, 1:215

Bridges, William, 2:544

Bridging concepts, 2:694

Bridging methods, 1:3–4

Brim, Orville, 1:449

Briner, Rob, 2:637, 2:638

Briscoe, Jon, 2:633

British Quality Foundation, 1:270

Brockbank, Wayne, 1:350

Brokerage theory, 1:399, 1:400

Bromiley, Philip, 2:631–632

Brown, Donaldson, 2:597

Bruce, Reginald, 1:188–189

BSC. See Balanced scorecard

BTF. See Behavioral theory of the firm

Buchanan, James, 2:678, 2:679, 2:681

Buffering, 2:661

Bundling resources, 2:664

Bunker, Barbara Benedict, 1:426

Bureaucracy, 1:191–192, 1:416

Bureaucratic control system, 1:462

Bureaucratic strategy, 1:347–348

Bureaucratic theory, 1:87–92
organic and mechanistic forms, 2:520
organizational effectiveness, 2:553
organizational structure and design, 2:572, 2:573–574
Burke, W. W., 2:543
Burns, James MacGregor, 1:151, 2:896–897
Burns, Lawton R., 1:483
Burns, Tom:
contingency theory, 1:144, 1:147
organic and mechanistic forms, 2:518, 2:519, 2:520
organizational structure and design, 2:572–573
quantum change, 2:651
Burrell, Gibson, 1:36–37, 3:39–40
Business excellence, 2:880
Business groups, 1:92–94
Business models, 2:904
Business policy and corporate strategy, 1:94–98, 1:206
Business process reengineering, 1:98–102
conditions enabling or inhibiting, 1:100
process view of the business, 1:99–100
scientific management, 2:681
Business school education, overhaul of, 1:59
Business social responsibility. See Corporate social responsibility
Business strategy, 1:206
Butler, John, 1:284
Buy low–sell high principle, 1:404
BVSR theory of human creativity, 1:102–103
Byrne, John, 2:598–599
Bystanders, 1:367, 2:738
Calculative approach, 2:526–527
Calculus-based trust, 2:725
Callon, Michel, 1:18, 1:19, 1:20, 1:22
Calm, 2:640
Cameron, Kim, 2:591–592, 2:592–593
Campbell, Donald T., 1:102, 1:103
Canada, 1:195
Cancellation, 2:629
Candidates, 1:362
Capabilities, 1:221–222, 2:623–624, 2:708
See also Dynamic capabilities
Capabilities-based advantage, 1:127–128, 1:129
Capacity, 1:370, 1:441–442
Capital:
defined, 1:351
internal capital market, 1:208
psychological, 1:55
Capital-based framework, 2:649
Career development, 2:869–870
Career stages and anchors, 1:105–108
career anchors, 1:106–107
career stages, 1:105–106
occupational types, model of, 2:514
practice, 1:107–108
research, 1:107
Carlson, Sune, 1:465
Carnegie school, 2:918
Carroll, Archie B., 1:162, 1:169
Carroll, Glenn R., 2:548, 2:549
Cascading objectives, 1:458, 1:459
Cash cows, 1:64
Castes, 1:133
Catastrophe theory, 1:228
Catheysis, 2:858
Causal attribution theory, 1:108–111
applications, 1:111
attraction biases and styles, 1:109–111
attrition research in organizations, 1:110–111
criticisms, 1:111
Causal relationships, 1:63, 2:852
Causality, locus of, 1:51, 1:109
Causality orientations, 2:686, 2:688–689
Celebrations, 1:437
Cell phones, texting ability of, 2:754
Center for Effective Organizations, 1:3
Center of Administrative Studies, 2:607
Centrality, 2:743, 2:772
Centralization and decentralization:
organizational structure and design, 2:570, 2:572
Practice of Management, The, 2:598
principles of administration and management functions, 2:605
strategic decision making, 2:776
Ceremonial adoption, 1:375, 1:376–377, 1:380
Certainty effect, 2:631
Chakrabarti, Alok, 2:616–617
Challenge, pure, 1:107
Champions, 2:616–619, 2:709
Champy, James, 1:98–99, 1:100
Chance, 1:196
Chandler, Alfred D., 1:207, 2:573, 2:800, 2:801, 2:802
Chang, Artemis, 1:326–327
Change:
alpha, 1:290–291
beta, 1:291
coarse, 2:549
competitive, 2:614
continuous and routinized, 1:152–154
episodic, 1:153, 1:154
evolutionary, 2:614
fine grained, 2:549
gamma, 1:291
leading, 2:797
macro-level processes of structural, 2:506–507
managing, 2:797
organizational, 2:578–579, 2:611
planned, 1:287, 1:288, 2:612–613
positive, 2:593
process theories of, 2:611–616, 2:612 (figure)
quantum, 2:650–653
resistance to, 1:290, 2:613, 2:799–800
social, 2:720
strategies for, 2:797–800
tolerance for, 2:800
Change agents, 1:374
Change blindness, 1:472
Change leaders, 2:797
Change managers, 2:797
Changing phase, 2:544
Channel expansion theory, 1:372
Chaos, 2:615, 2:836
Charismatic theory of leadership, 1:111–115
assessment stage, 1:112–113
culturally endorsed leadership theory, 1:312–313
goals, visionary, 1:112, 1:113–114
trait theory of leadership, 2:883, 2:885
transformational theory of leadership, 2:897–898
vision, achievement of, 1:112, 1:114
Chavannes, Albert, 2:725–726
Checkland, Peter, 2:837
Chesbrough, Henry William, 2:515
Chevalier, Françoise, 1:377
China, 1:133–134, 1:334
Choi, Jin Nam, 1:330
Choice, organizational, 1:72
Choice sets, 1:362, 1:473
Christensen, Clayton M., 2:826, 2:848
Chrysler, 1:445–446
Churchill, Winston, 2:596–597
Cialdini, Robert, 2:509, 2:510
Circuit City, 1:446
Circuits of power and control, 1:115–117
Circumplex models, 2:860
Circumstantial efficacy, 2:692
Claimants, residual, 1:31
Clan control system, 1:462
Clan organizations, 1:124
Clarity, 2:537
Class and class conflict, 1:133, 1:201
Classical economics, 1:194
Clean-slate designs, 1:100
Clegg, Stewart, 1:115, 1:116
Climate:
diversity, 1:391–393
organizational, 2:534
Clinical inquiry/research, 2:609–610
Clinical synthesis, 1:84
Clinical-actuarial controversy, 1:83–84
Cliques, 2:744
Close learning, 1:457
Closed skills, 2:873
Closed systems, 1:202
Closed-system perspective, 2:841
Closure theory, 1:399
Cluster chain, 1:368
Cluster theory, 2:762
Clusters, 2:744
CMS. See Critical management studies
Coaches and coaching:
coaching style, 2:704, 2:705
high-performing teams, 1:340
learning, 1:12, 1:13
theat x and theory y, 2:877
Co-acting groups, 1:151
Coal mining, 2:752–753
Coalitions, 1:366–367, 2:797, 2:842
Coarse change, 2:549
Coase, Ronald, 2:888, 2:890–891
Codes, vocational, 2:513–514
Codified knowledge, 1:157
Coding, 2:629
Coercive bureaucracy, 1:416
Coercive isomorphism, 1:381
Coercive power, 1:132, 1:133, 2:748
Cognition:
cultural intelligence, 1:177
defined, 1:237
discovery theory of entrepreneurship, 1:204, 1:206
employee, 2:581–582
empowerment, 1:231
entrepreneurial, 1:204, 1:237–239
Cognitive appraisals, 2:860, 2:871
Cognitive biases, 2:613
Cognitive dissonance theory, 1:117–119
decision making, 1:118
organizational identification, 1:118–119
unethical behavior, 1:119
Cognitive inertia, 2:783
Cognitive intelligence, 1:225–226, 1:227, 2:884
Cognitive load/effort, 2:738
Cognitive mechanisms, 2:593
Cognitive moral development, 1:260
Cognitive resource theory (CRT),
1:120–121, 1:150, 1:493–494
Cognitive resources mechanism, 2:728
Cognitive responses, 2:865
Cohesiveness, 2:744
Cohort effects, 2:540, 2:541
Cole, Robert, 1:377
Collaborating, 1:140
Collaboration, 1:436
Collaborative communities, 1:495, 1:496
Collaborative conflict culture, 2:613
Collaborative decision-making style, 2:578
Collaborative research methods, 1:2–3
Collective action, situated, 1:216
Collective identity, 2:560
Collective representation, 1:264
Collective self-concept, 2:683
Collective social processes, 2:695
Collectivism:
cultural values, 1:181, 1:182–183, 1:184
family, 1:312, 1:313
GLOBE model, 1:312, 1:313
high- and low-context cultures, 1:334
institutional, 1:312, 1:313
stewardship theory, 2:768
Collectivism I, 1:312, 1:313
Collectivism II, 1:312, 1:313
Collectivities, 1:372
Collins, Christopher J., 1:346, 1:347, 1:348, 1:349
Collins, James C. (Jim), 1:445–447
Collis, David, 1:95
Combination, 1:208, 2:629
Combs, James, 2:670
Comiskey, Barrett, 1:136, 1:137
Command, unity of, 2:604–605
Commanding, 2:605, 2:606
Commitment:
affective, 2:527, 2:557
continuance, 2:527, 2:557
escalation of, 1:82, 1:256–259
game theory, 1:299, 1:301
to goals, 1:316
high-sacrifice continuance, 2:527
low-alternatives continuance, 2:527
moral, 1:293
normative, 2:527, 2:557
strategic flexibility, 2:783
value, 2:527
Committee members, 1:464
Commons, John R., 2:888, 2:890
Communication:
componential theory of creativity, 1:135 (figure), 1:137
critical theory of, 1:168–169
of expectations, 2:692, 2:693
face-to-face, 1:370, 1:371
functions of the executive, 1:293, 1:294
humanistic management, 1:356
impersonal written, 1:370
informal, 1:368–369
manager, 1:370
personal written, 1:370
strategies for change, 2:797, 2:798
telephone, 1:370
virtual teams, 2:928
written, 1:370, 1:372
Communication-driven decision-support systems, 1:186
Communities, collaborative, 1:495, 1:496
Communities of practice, 1:419
Community, creating value for, 2:699
Companies. See Firms;
Organizations; specific companies
Company-wide quality control, 2:879
Comparative Analysis of Complex Organizations, A (Etzioni), 1:132
Comparative institutionalism, 1:385, 1:386
Comparison, social, 2:684
Comparison mechanism, 2:728
Competibility, 2:866
Compatibility test, 1:362
Compatible options, 1:361
Compensation:
equity theory, 1:250–252, 1:253
executive, 1:32, 1:33–34, 2:909
fair, 2:605
Competence:
dynamic capabilities versus, 1:221–222
emotional and social intelligence, 1:227
empowerment, 1:229
general managerial, 1:106
self-determination theory, 2:687, 2:688
technical/functional, 1:106
See also Core competence
Competence trust, 2:770–771
Competing, 1:140
Competing values framework (CVF), 1:121–125
adhocracy (creative) quadrant, 1:124–125
clan (collaborative) quadrant, 1:124
hierarchy (control) quadrant, 1:123–124
market (compete) quadrant, 1:124
organizational effectiveness, 2:555
Competition:
defined, 2:858
imperfect, 1:127
organizational ecology, 2:548, 2:551
social construction of, 2:719
social exchange theory, 2:724
strategic alliances, 2:771
See also Theory of cooperation and competition
Competitive advantage, 1:125–130
corporate advantage, 1:128
creating, 1:128–129
demand-side dimensions, 1:128
dynamic capabilities, 1:224
endogeneity of market structure, 1:128
five forces, 1:126
generic strategies, 1:126
global, 2:794
human resource management strategies, 1:346
knowledge-based view of the firm, 1:422
position-based advantage, 1:126–127
resource- and/or capabilities-based advantage, 1:127–128, 1:129
resource-based view of the firm, 2:666–667, 2:668
strategic entrepreneurship, 2:778, 2:779–780
sustaining, 1:129
value chain, 2:925–926
See also Diamond model of national competitive advantage
Competitive Advantage (Porter), 1:126, 2:925–926
Competitive aggressiveness, 1:243
Competitive change, 2:614
Competitive interdependence, 2:660–661
Competitive Strategy (Porter), 1:126, 2:796
Competitiveness, 1:196–197
Compilation, 1:498
Complementarity, 2:623–624, 2:802
Complete information, 1:299
Completion, proximity to, 1:258, 1:259
Complex adaptive systems, 2:836
Complex responsive processes, 2:836
Complexity:
environmental, 1:247
managerial, 1:208–209
task, 1:300
technology and, 2:835–838
Complexity theory and organizations, 1:130–132, 1:291
Compliance theory, 1:132–134
Componential theory of creativity, 1:134–139
application in organizational settings, 1:138
components and the creative process, 1:136–137
components of creativity, 1:134–135, 1:135 (figure)
in context, 1:138
creativity-relevant processes, 1:135
dominant-relevant skills, 1:135
social environment, 1:136
Composition, 1:498
Compound needs, 1:254
Compromise, 1:140
Computer simulations, 2:859
Conative responses, 2:865
Concept of the Corporation, The (Drucker), 2:597–598
Concepts:
bridging, 2:694
relational, 2:832
Conceptual role, 1:465
Conceptual skills, 2:699
Conceptualization, abstract, 1:277, 1:278 (figure)
Concern for others, 1:140, 1:141, 1:141 (figure), 1:217–218
Concern for self, 1:140, 1:141 (figure), 1:217–218
Concrete experience, 1:277, 1:278 (figure)
Concrete needs, 1:254
Conference Model, The, 1:425, 1:426
Confidence, 1:55, 1:316
Configurations, 2:651–652, 2:802
Confirmation bias, 1:82, 1:257, 1:259, 1:472
Conflict:
described, 1:139
group versus individual, 1:300
intergroup, 1:391–392
role, 2:672–673, 2:730
See also Conflict handling styles
Conflict culture, 2:613–614
Index

Conflict Handling Best-Worst Scale, 1:142
Conflict handling styles, 1:139–144
accommodating, 1:140
avoiding, 1:140
collaborating, 1:140
compromising, 1:140
context, described, 1:139
context handling, described, 1:139
contending, 1:140
dimensions, 1:140–141, 1:141
(figure)
measurement, 1:141–142
normative perspective, 1:142–143
process theories of change, 2:613–614
Conformity, 2:507, 2:738
Confronting, 1:140
Confrontive inquiry, 2:609
Confucian work dynamism, 1:181–182
Confucius, 1:269
Conger, Jay, 1:451, 2:898
Conglomerate diversification, 1:207, 1:209
Connell, James P., 2:689
Conscientiousness, 1:76, 2:639–640
Consensus, 1:50, 2:537, 2:612–613
Consensus information, 1:109
Consequences, 2:653, 2:657, 2:730
Conservation in information
processing, 1:82
Consideration, 2:582
Consistency, 1:50, 2:537, 2:724
Consistency index, 1:35
Consistency information, 1:109
Constraints, 2:744, 2:855–857
See also Technology affordances
and constraints theory (of
MIS)
Constructionist principle, 1:41–42
Constructivist research, 1:2, 1:17
Constructs, 2:626
Consultation, 1:264
Consultation, process, 2:608–611
Consultative decision-making style,
1:189, 2:578
Contending, 1:140, 1:217
Content-free schemas, 2:676
Contests, 2:787
Context, 1:333
See also High- and low-context
cultures
Context satisfactions, 1:409, 1:410
Contextual approach, 2:784–785
Contextual boundaries, 2:852
Contextualization, 2:853
Contingencies, 2:840–841, 2:842
Contingency theory, 1:144–148
environmental uncertainty, 1:247
human resource management
strategies, 1:346, 1:349
organizational effectiveness, 2:553
organizational structure and
design, 2:570–573, 2:574
structural, 2:661
technology and interdependence/
uncertainty, 2:842
Contingency theory of leadership,
1:148–152
applications, 1:152
challenges to, 1:151–152
contingency relationship of leader
effectiveness, 1:149–150
leader orientation and LPC
assessment, 1:149
managerial grid versus, 1:474,
1:476
situational theory of leadership
and, 2:705
situational variables, 1:149
substitutes for leadership, 2:810
support for, 1:151
Contingent rewards, 2:897
Contingent self-esteem, 2:868
Continueance commitment, 2:527,
2:557
Continuity, 1:153
Continuous and routinized change,
1:152–154
Continuous environments, 1:82–83
Continuous improvement. See
Kaiser and continuous
improvement
Continuous reinforcement, 2:656
Contract curve, 1:302
Contract-based alliances, 2:769
Contracts:
alliances based on, 2:769
integrative social contracts theory,
1:387–389
macrosocial, 1:388
microsocial, 1:388–389
nexus of, 1:31
psychological contract theory,
2:634–639
psychological work, 2:636–637
relational psychological, 2:635,
2:636, 2:637
transaction cost theory, 2:889,
2:891
transactional psychological, 2:635,
2:637
Contradiction, 1:190–191
Contributions, recognizing,
1:436–437
Control:
bureaucratic control system, 1:462
circuits of power and control,
1:115–117
company-wide quality, 2:879
demand-control model, 1:412
external mechanisms, 1:32
internal mechanisms, 1:32
legalistic control system, 1:462
locus of, 1:448–451
management control systems,
1:460–462
market control systems,
1:461–462
organizational, 1:460–461
plan control system, 1:462
social control mechanism, 1:486
strategic alliances, 2:771
taxonomies of mechanisms of,
1:201–202
Control mechanisms, 1:32, 1:486
Control stage, 2:648, 2:649–650
Control systems, 2:816–817
Controlled motivation, 2:686–687
Controlled orientation, 2:688, 2:690
Controlled script processing, 2:676
Controlling, 2:606
Conventional level of moral
development, 1:490, 1:492
Conway, Neil, 2:637, 2:638
Cook-Greuter, Suzanne, 1:492
Cooley, Charles, 2:868
Cooperation:
defined, 2:858
hearty, 2:679–680
scientific management, 2:679–680
strategic alliances, 2:771
trust versus, 2:905–906
See also Theory of cooperation
and competition
Cooperative systems, 1:292
Cooperrider, David, 1:41–42
Cooptation, 1:154–156
Coordinating, 2:606
Coordination mechanisms, 1:371
Creation theory of entrepreneurship, 1:205
Creative destruction, 2:622, 2:827, 2:848
Creative intuition, 1:402–403
Creativity:
benefits, 1:406
costs, 1:406
entrepreneurial, 1:106
expectancy theory, 1:273
interactionist model of
organizational creativity, 1:394–398
investment theory of, 1:404–406
organizational, 1:394–395
stages of, 2:755–758
Creativity training, 1:405
Creativity-relevant processes, 1:135
Cox, Jeff, 1:192
Crisis decisions, 2:916
Critical management studies (CMS),
1:164–168
analytical and sociological paradigms, 1:39
dialectical theory of organizations, 1:192
managerialism, 1:478
research areas, 1:165–166
task, 1:164–165
Critical path method, 1:304
Critical theory of communication, 1:168–169
Critics, 2:760
Crook, Russell, 2:670
Cross, Rob, 2:745
Cross-border alliances, 2:793
Cross-level mediational relationships, 1:497–498
Cross-level moderating effects, 1:497
Cross-level relationships, 1:497
Crowdsourcing, 2:515–516
CRT. See Cognitive resource theory
CSR. See Corporate social responsibility
CSR pyramid, 1:169–172
Corporate social responsibility, 1:162
economic responsibilities, 1:170
ethical responsibilities, 1:171
legal responsibilities, 1:170–171
philanthropic responsibilities, 1:171–172
Cue, Everett C., 1:213, 1:214
Cultural attitudes in multinational corporations, 1:173–176
Cultural diversity, 1:389–394, 1:493–494
Cultural dynamics, 2:532–533
Cultural identity, 2:730–731
Cultural intelligence (CQ),
1:176–179
cultural attitudes in multinational corporations, 1:175
cultural values versus, 1:176
trait theory of leadership, 2:884
Cultural knowledge, 2:713–716
Cultural studies, 1:168
Cultural values, 1:179–184
cultural attitudes in multinational corporations, 1:175
cultural intelligence versus, 1:176
GLOBE model, 1:313
individualism, 1:181, 1:182–183, 1:184
indulgence versus restraint, 1:182, 1:184
long-term versus short-term orientation, 1:181–182, 1:184
masculinity-femininity, 1:181, 1:184
power distance, 1:180–181, 1:183–184
uncertainty avoidance, 1:181, 1:184
Culturally endorsed leadership theory, 1:312–313, 1:314
Culture:
complexity of, 2:536
conflict, 2:613–614
defined, 1:180, 2:531
high- and low-context, 1:333–336
implicit theories of, 2:537–538
manifestations of, 2:536
organizational culture theory, 2:536
social construction theory, 2:715–716
strong, 1:485–486, 2:913
weak, 2:913
Culture research types, 1:174
Cultures and Organizations
(Hofstede, Hofstede, & Minkov), 1:181, 1:182
Cumulative prospect theory, 2:631
Customer dimension, 1:61
Customer engagement quality, 2:647
Customer service process, 1:99–100
Customers as stakeholders, 2:795
CVF. See Competing values framework
Cybernetics, 2:816–817
Cyert, Richard,
Cybernetics,
CVF.
Dahlgaard, J. J.,
Dacin, Tina,
Dark side of leadership,
Dahlgaard-Park, S. M.,
Dannemiller, Kathy,
Customers as stakeholders,
Data collection, left-censoring in,
Davis, Gerald,
Davis, Fred,
Decision aids,
Dawes, Robyn,
Davis, K.,
De Dreu, Carsten,
Dead-enders,
Deci, Edward L.,
Decentralization.
See Centralization and decentralization
Deb, 2:890
DeC. See Digital Equipment Company
Decentration. See Centralization and decentralization
Deci, Edward L., 1:273, 2:689
Decision aids, 1:187, 1:266–267
Decision making:
cognitive dissonance theory, 1:118
entrepreneurial cognition,
1:237–238
ethical decision making,
interactionist model of,
1:259–1:262
by flight, 1:308
garbage can model of, 1:307–310
group, 1:189, 1:258
intuitive, 1:188, 1:401–404
mechanistic, 2:627–628
micro-level processes and, 2:507
by oversight, 1:308
participative model of, 2:577–580
programmability of, 2:625–628
rational, 1:188, 1:401
by resolution, 1:308
stakeholder considerations in,
1:267
strategic, 2:541, 2:775–778
team-based, 2:785
trust and, 2:906
uncertainty in, 2:626
“unstructured,” 2:915–918
Decision paths, 1:363–364
Decision rule, 1:362
Decision support systems (DSS),
1:185–188
communication-driven, 1:186
data-driven, 1:186
defined, 1:185
document-driven, 1:186
knowledge-driven, 1:186
model-driven, 1:186, 1:187
programmability of decision making, 2:627, 2:628
strategic information systems, 2:790
Decision theory, 1:302, 2:775
Decision trees, 2:577–578,
2:579
Decisional roles, 1:463–464
Decision-making styles, 1:188–189,
1:308, 2:578
autocratic, 1:189, 2:578
avoidant, 1:188–189
collaborative, 2:578
consultative, 1:189, 2:578
dependent, 1:188
spontaneous, 1:188–189
Decisions:
adoption, 1:362, 1:363, 1:376
financial, 2:890
hard-data, 1:452
image theory, 1:362, 1:363–364
nonprogrammed, 2:626
opportunity, 2:916
problem, 2:916
progress, 1:362
soft, 1:432
Decline stage, 2:665–666
Decoupling, 2:507
Deculturation, 1:392
Deep structures, 2:642, 2:643
Default heuristic, 1:82
Defenders, 2:796
Defensiveness and defensive routines,
1:211
Deficiency needs, 2:504
Degree centrality, 2:743
Delegating style, 2:704, 2:705, 2:706
Delery, John, 1:336
Delivery/destiny, 1:42–43
Dell, 2:827, 2:924, 2:925, 2:926
Demand conditions, 1:194–195
Demand-control model, 1:412
Demand-side organization, 1:375
Deming, William Edwards, 2:879,
2:880
Democratic design principle, 2:753
Democratic leadership, 1:276
Demography, organizational,
2:539–542
Denison, Daniel, 2:530
Denmark, 1:195, 1:334
Density, 2:743, 2:744
Density-dependence theory, 2:548,
2:551
Deontology, 2:600
Dependence, 2:723
See also Interdependence
Dependent decision-making style,
1:188
Derrida, Jacques, 2:501
Descriptive norms, 2:509
Design, 1:42, 2:728
See also Organizational structure and design
Design for implementation approach,
1:100
Design school of strategy, 1:487–488
Design science, 1:2–3
Desire, 1:254–255
Desired behaviors, 1:68–69
Dess, Greg, 1:243
Destruction, creative, 2:622, 2:827,
2:848
Deutsch, Morton, 2:858, 2:904
Development phase, 2:916
“Developmental Sequence in Small Groups” (Tuckman), 1:319–320
Devil’s advocate role, 2:785
Diagnostic inquiry, 2:609
Dialectical theory of organizations,
1:190–193
contradiction, 1:190–191
praxis, 1:191–192
principles, 1:190–192
process theories of change,
2:613–614
knowledge-based view of the firm, 1:423
learning organization, 1:442
ordinary capabilities versus, 1:221–222
precursors, 1:222
resource-based view of the firm, 2:669
strategic entrepreneurship, 2:780
strategic groups, 2:789
taxonomy, 1:223
Dynamic routines, 1:157
Dynamic social impact theory, 2:735
Dynamic variables, 2:816
Dynamical systems, 2:819
Dynamics:
cultural, 2:532–533
group, 2:730
 systemic, 2:818
type, 2:640
E Ink (company), 1:136, 1:137
Earley, P. Christopher, 1:175, 1:176, 1:177
Early finish, 1:304, 1:305
Early start, 1:304, 1:305
Ease-of-use, perceived, 2:830
EBMgt. See Evidence-based management
Eco-efficiency, 2:902
Ecology:
behavioral, 2:860
 organizational, 1:223, 2:547–553
 population, 2:662, 2:827
 Economic exchanges, 2:724
Economic man, 1:81, 2:596–597
Economic responsibilities, 1:170
Economic stake, 2:763
Economic theories, 1:97
Economics:
classical, 1:194
 industrial organization, 2:667
 organizational, 2:561
 scientific management, 2:678
Edgeworth, Francis Ysidro, 1:302
Editing phase, 2:629
Education:
 experiential, 1:456
formal, 1:405
humanistic management, impact of, 1:338
management (education) as practice, 1:453–1:458
substitutes for leadership, 2:811
Effect, law of, 2:657
Effect uncertainty, 1:246
Effective organizations, 1:294
Effectiveness:
leader, 2:885–886
leadership style and, 1:476–477
lean enterprise, 1:439
managing diversity, 1:481–482
multinational corporations, 2:794–795
organizational, 1:68, 1:70, 2:533–556, 2:661
organizational culture and, 2:529–530
work team, 2:931–934
Effectuation, 1:239–241, 2:787
Efficacy:
circumstantial, 2:692
external, 2:691–692
means, 2:691, 2:692
See also Self-efficacy
Efficiency, 1:199, 2:555
Efficient organizations, 1:294
Effort, 1:272, 2:847
Effort attributions, 1:51, 1:52
Effort-reward imbalance model, 1:412
EFQM. See European Foundation for Quality Management
Egalitarianism, gender, 1:312, 1:313
Ego, 2:743–744
Ego strength, 1:261
Egocentric bias, 1:472
Egoism, 2:600
Egonet composition, 2:744
Eisenhardt, Kathleen M., 1:31–32, 1:442, 2:669
Electronic ink, 1:136, 1:137
Electronic mail, 2:751, 2:754, 2:833
Electronic performance monitoring, 2:728
Elkington, John, 2:902
ELT. See Experiential learning theory and learning styles
E-mail, 2:751, 2:754, 2:833
Emancipator interest, 1:166–167
Embeddedness, 1:399, 1:497, 2:744
Emergent strategy, 1:290, 1:487, 1:488
Emerson, Richard, 2:842
Emery, Fred, 2:753
Emery Air Freight, 2:657
EMI Ltd., 2:622, 2:623
Emissaries, 1:464
Emotional and Social Competency Inventory, 1:226, 1:227
Emotional and social intelligence (ESI), 1:225–229, 2:884
Emotional experience, 2:860
Emotional expression, 2:860
Emotional healing, 2:699
Emotional labor, 2:861
Emotional Quotient Inventory, 1:226–227
Emotional recognition, 2:861
Emotional registration, 2:860
Emotional regulation, 2:861
Emotional stability, 1:76–77, 2:640, 2:869
Emotions:
 managerial decision biases, 1:472–473
 positive, 2:593
as social information, 2:860
social-unit attributions of, 1:26–27, 1:28
strategies for change, 2:799–800
theory of, 2:859–861
Empedocles, 2:911
Employee advocates, 1:350
Employee cognition, 2:581–582
Employee motivation, 2:581
Employee movements, 2:741
Employee network groups, 1:480
Employee rights, 1:264
Employee turnover, 1:344, 1:363–364, 1:450
Employees, 2:703, 2:798–799
Employment, stable, 2:605
Empowerment, 1:229–234
antecedents, 1:230
charismatic theory of leadership, 1:115
defined, 1:229
group, 1:233
individual, 1:233
locus of control, 1:451
partial nomological network for, 1:230–231
servant leadership, 2:699
Ethics:  
cognitive dissonance theory, 1:119  
CSR pyramid, 1:171  
humanistic management, 1:356  
organizational and managerial wisdom, 2:521, 2:522  
servant leadership, 2:699  
stakeholder theory, 2:764  
teleological view of, 2:600  
virtue, 2:600  
Ethnocentric multinational corporations, 1:173, 1:174  
Ethnocentrism, 1:391  
Etzioni, Amitai, 1:132  
European Foundation for Quality Management (EFQM), 1:269, 1:270, 2:880  
European model of human resource management, 1:262–265  
collective representation, 1:264  
consultation, 1:264  
employee rights, 1:264  
stakeholder approach, 1:263  
state, role of the, 1:263–264  
Evaluation, 1:17, 2:629  
Evans, Martin, 2:583  
Event schemas, 2:676  
Event-in-organization schemas, 2:676  
Evidence-based management (EBMgt), 1:3, 1:265–268  
business/organizational evidence, use of, 1:266  
reflective judgment and decision aids, 1:266–267  
scientific knowledge, use of, 1:266  
stakeholder considerations in ethical decision making, 1:267  
Evidence-based medicine, 1:3  
Evolution, Darwinian model of, 1:102, 1:103, 2:642, 2:643  
evolutionary change, 2:614  
evolutionary process theory, 2:614  
evolutionary psychology, 2:685  
Example, setting, 1:435–436  
Excellence characteristics, 1:268–271  
*Exchange and Power in Social Life* (Blau), 2:724  
Exchange theory. See Leader–member exchange theory; Social exchange theory  
Exclusion, 1:6  
Executive, functions of the, 1:291–295  
*Executive Behaviour* (Carlson), 1:465  
Executive compensation, 1:32, 1:33–34, 2:909  
Executive leadership, 2:709  
Executive temperament, 1:120  
Exemplary performance, 2:594  
Existence needs, 1:254  
Expectancy effects, group-level, 2:692  
Expectancy theory, 1:271–276  
goal setting, 1:274  
groups and teams, 1:275–276  
humanistic management, 1:357  
job design, 1:274  
path-goal theory of leadership, 2:581–582  
values, connecting work to, 1:274–275  
Expectations, 1:72, 1:73, 2:692, 2:693  
Expected utility theory, 2:629, 2:630–631  
Expenses, operating, 2:855  
Experience:  
cognitive resource theory, 1:120–121  
concrete, 1:277, 1:278 (figure)  
emotional, 2:860  
leadership, 1:120–121  
openness to, 1:77  
Experienced meaningfulness, 1:407–408, 1:409  
Experienced responsibility, 1:407, 1:408  
Experiential education, 1:456  
Experiential learning theory (ELT) and learning styles, 1:276–279  
cycle of experiential learning, 1:277  
experiential learning styles, 1:277–279, 1:278 (figure)  
Experimentation, 1:277, 1:278 (figure), 1:436  
Expert power, 1:115, 2:747  
Expert systems, 1:187  
Expertise:  
charismatic theory of leadership, 1:114, 1:115  
differentiation and the division of labor, 1:198–199  
intuitive decision making, 1:401, 1:403  
process consultation versus, 2:608–609  
Experts, functional, 1:350–351  
Explanation stage, 2:853  
Explicit knowledge, 1:157  
Exploitation, 1:201, 1:442  
Exploitation strategy, 1:347–348  
Exploration, 1:105, 1:442  
Exploration strategy, 1:346–347  
Extended enterprises, 1:496  
External attributions, 1:51, 1:52  
External constituencies model, 2:555  
External control mechanisms, 1:32  
External efficacy, 2:691–692  
External esteem needs, 2:503  
External fit, 2:796  
External knowledge, 1:422  
External locus of control, 1:261  
External movements, 2:741  
External regulation, 2:686–687  
Extinction, 2:656  
Extraversion, 1:76, 2:639, 2:640  
Extrinsic aspirations, 2:689  
Extrinsic motivation, 1:273, 1:274, 1:348, 2:686–687  
Extrinsic rewards, 2:658  
Eysenck, Hans, 1:395–396  
Face-to-face communication, 1:370, 1:371  
Facilitative power circuits, 1:116  
Facilitators, 1:87  
Factor conditions, 1:194  
Factor-driven competitiveness, 1:196–197  
Facts, 2:626  
Fairness, 2:605, 2:763–764  
Fairness theory, 1:281–283  
Faithful appropriations, 1:24  
Fama, Eugene F., 1:31  
Family collectivism, 1:33–34, 1:456  
Fast and frugal heuristics, 1:83  
Fast followers, 1:243  
Fault lines, 2:733  
Fayol, Henri, 1:201, 2:603–608  
Feedback:  
  game theory, 1:299  
  job characteristics theory, 1:408
loops, negative, 2:816–817
management by objectives, 1:459
organizational development, 2:546
organizational learning, 2:564
performance, 1:72, 2:636
reinforcement theory, 2:658–659
survey, 2:545–546
two-factor theory (and job enrichment), 2:909
Feeling, 2:639, 2:640, 2:641
Feldman, Daniel, 1:107
Femininity, 1:181, 1:184
Ferguson, Adam, 1:199–200
Ferment, era of, 2:825
Festinger, Leon, 1:117, 1:118
Fidelity goals, 2:578
Fiedler, Fred E.:
cognitive resource theory, 1:120
contingency theory, 1:144–145, 1:146
contingency theory of leadership, 1:148, 1:149–150, 1:151
Fields:
force field analysis and model of planned change, 1:287, 1:288
organizational, 1:381, 1:385, 1:386–387, 1:442–443
sensemaking, 2:694
Figureheads, 1:463
Fiman, Byron, 2:876
Financial decisions, 2:890
Financial dimension, 1:61
Financial performance, 2:880–881
Financial resources, 1:100
Fine grained change, 2:549
Finish, early/late, 1:304, 1:305
Finkelstein, Sydney, 2:663
Firm growth, 1:283–285
Firm infrastructure, 2:925
Firm strategy, 1:195–196
Firm value, 2:778–779
Firms:
behavioral theory of, 1:72–76, 2:563, 2:565
global, 1:174, 2:900
international, 1:174–175, 2:900
knowledge-based view of, 1:156–157, 1:421–424
professional service, 2:926
transnational, 1:175, 2:900
See also Resource-based view of the firm; specific firms
First impressions, 2:738
First-mover advantages (FMA) and disadvantages, 1:285–287, 2:622
First-person action research, 1:15
Fisher, Roger, 2:599, 2:601, 2:602, 2:603
Fit:
contingency theory of leadership, 1:148–149
external, 2:796
high-performance work systems, 1:336–337
horizontal, 1:336–337
individual-occupation, 2:513
internal, 2:796
occupational types, model of, 2:513
strategic profiles, 2:796
strategy and structure, 2:802
vertical, 1:336
Five forces model, 1:126, 2:796
Five Practices of Exemplary Leadership, 1:435–437
Five-factor model of personality, 1:76–80, 2:639–640, 2:883
Fixed interval schedule, 2:656
Fixed ratio schedule, 2:656
Fixedness, functional, 1:427
Flexibility, 2:771
See also Strategic flexibility
Flight, decision making by, 1:308
Florida Power and Light, 2:707
Flourish (Seligman), 1:358
Flow, 1:440
Fluid pattern, 2:586
Flywheels, 2:446
FMA. See First-mover advantages and disadvantages
Foа, Edna, 2:725
Foа, Uriel, 2:725
Focal knowledge, 2:821, 2:822
Focal unit, 1:498
Focusing steps, 2:855–856
Folger, Robert, 1:252
Followers, 1:115, 1:243, 2:886
Force field analysis and model of planned change, 1:287–291
Forcing, 1:140
Ford, Henry, 2:908
Ford, Robert, 1:483
Ford Motor Company, 1:285, 1:425, 2:837
Forecasts, 1:362
Foreignness, liability of, 1:386
Formal activities, 1:465
Formal cooptation, 1:154
Formal mentoring programs, 1:480, 1:481
Formal organizations, 1:292
Formal planning approach, 1:451–452
Formal structure, 2:506
Formalization, 2:570, 2:572
Formation stage, 2:769–770
Forming stage, 1:301, 1:319, 1:321
Fortuity, agentic management of, 2:714–715
Foster, Richard, 2:825
4-D model, 1:42–43
Fragmentation, 1:420, 2:538
Frames, strategic, 2:785–788
Framing effects, 1:82
Frankfurt school, 1:166–167, 1:168
Franz, James, 1:416
Frautschy DeMuth, Rachel, 2:633
Frederick Julius Stahl (Drucker), 2:596
Freeman, John, 2:548–549, 2:550, 2:827
Freeman, R. Edward, 2:765
French, John, 2:746, 2:747, 2:748, 2:749, 2:750
Friedman, Meyer, 2:910, 2:911
Friedman, Milton, 1:57, 1:59, 1:161–162
Friendliness, 1:366
Friesen, Peter H., 2:651–652
Frustration-regression process, 1:255
Fulfillment, personal, 2:593–594
Fulfillment, psychological contract, 2:635, 2:636
Full range leadership theory, 2:897, 2:898
Functional experts, 1:350–351
Functional fixedness, 1:427
Functional organization, 2:845
Functional roles, 2:671–672
Functionalist paradigm, 1:36, 1:37–38, 1:37 (figure)
Functionalist role theory, 2:673
Functions of the executive, 1:291–295
association needs of individuals, 1:291–293, 1:294
authority, 1:293–294, 1:294–295
communication, 1:293, 1:294
Functions of the Executive, The (Barnard), 1:292
<table>
<thead>
<tr>
<th>Index Item</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fundamental attribution error, 1:472</td>
<td></td>
</tr>
<tr>
<td>Furniture industry, 2:925</td>
<td></td>
</tr>
<tr>
<td>Future orientation, 1:312, 1:313, 2:605–606</td>
<td></td>
</tr>
<tr>
<td>Future Search, 1:425, 1:426</td>
<td></td>
</tr>
<tr>
<td>Gabriel, Yannis, 2:502</td>
<td></td>
</tr>
<tr>
<td>Gain, group, 2:724</td>
<td></td>
</tr>
<tr>
<td>Galatea effect, 2:691</td>
<td></td>
</tr>
<tr>
<td>Galbraith, Jay, 1:483</td>
<td></td>
</tr>
<tr>
<td>Gambler's fallacy, 1:82</td>
<td></td>
</tr>
<tr>
<td>Game engineering, 1:303</td>
<td></td>
</tr>
<tr>
<td><strong>Game theory, 1:297–304</strong></td>
<td></td>
</tr>
<tr>
<td>classification of games, 1:298–301</td>
<td></td>
</tr>
<tr>
<td>elements of games, 1:297–298</td>
<td></td>
</tr>
<tr>
<td>Gamma changes, 1:291</td>
<td></td>
</tr>
<tr>
<td><strong>Gantt chart and PERT, 1:304–307</strong></td>
<td></td>
</tr>
<tr>
<td>Gantt chart, described, 1:306</td>
<td></td>
</tr>
<tr>
<td>PERT network diagrams, described, 1:304–306, 1:305 (figure)</td>
<td></td>
</tr>
<tr>
<td>probability estimation in PERT, 1:306</td>
<td></td>
</tr>
<tr>
<td><strong>Garbage can model of decision making (GCM), 1:307–310</strong></td>
<td></td>
</tr>
<tr>
<td>Garcia, Joseph (Joe), 1:120, 1:150</td>
<td></td>
</tr>
<tr>
<td>Gardner, William L., 2:875</td>
<td></td>
</tr>
<tr>
<td>Gassmann, Oliver, 2:515</td>
<td></td>
</tr>
<tr>
<td><strong>GCM. See Garbage can model of decision making</strong></td>
<td></td>
</tr>
<tr>
<td><strong>GE. See General Electric</strong></td>
<td></td>
</tr>
<tr>
<td>Gemuenden, Hans Georg, 2:617</td>
<td></td>
</tr>
<tr>
<td>Gender egalitarianism, 1:312, 1:313</td>
<td></td>
</tr>
<tr>
<td><strong>Genderlect and linguistic styles, 1:310–311</strong></td>
<td></td>
</tr>
<tr>
<td><strong>General and Industrial Management (Fayol), 2:607</strong></td>
<td></td>
</tr>
<tr>
<td>General causality orientations, 2:686, 2:688–689</td>
<td></td>
</tr>
<tr>
<td>General Electric (GE), 1:64, 2:598, 2:708, 2:709, 2:710</td>
<td></td>
</tr>
<tr>
<td>General managerial competence, 1:106</td>
<td></td>
</tr>
<tr>
<td><strong>General Managers, The (Kotter), 1:466</strong></td>
<td></td>
</tr>
<tr>
<td>General Motors Corporation, 2:597–598</td>
<td></td>
</tr>
<tr>
<td>General theories, 2:850, 2:851</td>
<td></td>
</tr>
<tr>
<td>General training, 1:343–344</td>
<td></td>
</tr>
<tr>
<td>Generalist organizations, 2:548–550</td>
<td></td>
</tr>
<tr>
<td>Generalization, 2:872–873</td>
<td></td>
</tr>
<tr>
<td>Generalized self-esteem, 2:868, 2:869</td>
<td></td>
</tr>
<tr>
<td>Generative mechanisms, 2:593</td>
<td></td>
</tr>
<tr>
<td><strong>Geocentric multinational corporations, 1:173, 1:174</strong></td>
<td></td>
</tr>
<tr>
<td>Geographic dispersion of process owners/enablers, 1:100</td>
<td></td>
</tr>
<tr>
<td>Geographically dispersed teams. See <strong>Virtual teams</strong></td>
<td></td>
</tr>
<tr>
<td>George, Bill, 1:53</td>
<td></td>
</tr>
<tr>
<td>Gersick, Connie, 1:325, 1:326, 1:327</td>
<td></td>
</tr>
<tr>
<td>Ghemawat, Pankaj, 1:175</td>
<td></td>
</tr>
<tr>
<td>Ghoshal, Sumatra: bad theories, 1:57–58, 1:59, 1:60</td>
<td></td>
</tr>
<tr>
<td>cultural attitudes in multinational corporations, 1:174–175</td>
<td></td>
</tr>
<tr>
<td>transnational management, 2:899, 2:900, 2:901–902</td>
<td></td>
</tr>
<tr>
<td>Gibb, Jack, 1:356</td>
<td></td>
</tr>
<tr>
<td>Giddens, Anthony, 1:39, 2:807–809</td>
<td></td>
</tr>
<tr>
<td>Gift exchanges, 2:726</td>
<td></td>
</tr>
<tr>
<td>Gigerenzer, Gert, 1:83</td>
<td></td>
</tr>
<tr>
<td>Gilbert, Rob, 1:365</td>
<td></td>
</tr>
<tr>
<td>Global competitive advantage, 2:794</td>
<td></td>
</tr>
<tr>
<td>Global firms, 2:700</td>
<td></td>
</tr>
<tr>
<td>Global Leadership and Organizational Behavior Effectiveness. See <strong>GLOBE</strong></td>
<td></td>
</tr>
<tr>
<td><strong>model</strong></td>
<td></td>
</tr>
<tr>
<td>Global mind-set, 1:175</td>
<td></td>
</tr>
<tr>
<td>Global Reporting Initiative, 2:902, 2:903, 2:904</td>
<td></td>
</tr>
<tr>
<td>Global self-esteem, 2:868, 2:869</td>
<td></td>
</tr>
<tr>
<td>Global talent management, 1:345, 2:794</td>
<td></td>
</tr>
<tr>
<td><strong>GLOBE model, 1:311–315</strong></td>
<td></td>
</tr>
<tr>
<td>achievement motivation, 1:9</td>
<td></td>
</tr>
<tr>
<td>cultural values, 1:183, 1:313</td>
<td></td>
</tr>
<tr>
<td>culturally endorsed leadership theory, 1:312–313, 1:314</td>
<td></td>
</tr>
<tr>
<td>leadership attributes, universally desirable/undesirable, 1:313</td>
<td></td>
</tr>
<tr>
<td>Phase 1/2 objectives and findings, 1:312</td>
<td></td>
</tr>
<tr>
<td>Phase 3 objectives and findings, 1:314</td>
<td></td>
</tr>
<tr>
<td>trait theory of leadership, 2:883</td>
<td></td>
</tr>
<tr>
<td>Gloomy vision, 1:57</td>
<td></td>
</tr>
<tr>
<td><strong>Goal, The (Goldratt &amp; Cox), 2:855, 2:856, 2:857</strong></td>
<td></td>
</tr>
<tr>
<td>Goal achievement model, 2:555</td>
<td></td>
</tr>
<tr>
<td>Goal model, 2:554</td>
<td></td>
</tr>
<tr>
<td>Goal substitution theory, 1:258</td>
<td></td>
</tr>
<tr>
<td>Goals: brainstorming, 1:87</td>
<td></td>
</tr>
<tr>
<td>commitment to, 1:316</td>
<td></td>
</tr>
<tr>
<td>defined, 1:315</td>
<td></td>
</tr>
<tr>
<td>distal, 1:300</td>
<td></td>
</tr>
<tr>
<td>expectancy theory, 1:271, 1:273</td>
<td></td>
</tr>
<tr>
<td>fidelity, 2:578</td>
<td></td>
</tr>
<tr>
<td>game theory, 1:300–301</td>
<td></td>
</tr>
<tr>
<td>group-level, 1:317</td>
<td></td>
</tr>
<tr>
<td>intrinsic life, 2:689</td>
<td></td>
</tr>
<tr>
<td>learning, 1:300</td>
<td></td>
</tr>
<tr>
<td>mediators, 1:300, 1:315–316</td>
<td></td>
</tr>
<tr>
<td>moderators, 1:316</td>
<td></td>
</tr>
<tr>
<td>multiple, 1:316–317</td>
<td></td>
</tr>
<tr>
<td>organizational, 1:72, 1:73</td>
<td></td>
</tr>
<tr>
<td>proximal, 1:300</td>
<td></td>
</tr>
<tr>
<td>satisfaction and, 1:316</td>
<td></td>
</tr>
<tr>
<td>self-determination theory, 2:689</td>
<td></td>
</tr>
<tr>
<td>social cognitive theory, 2:712</td>
<td></td>
</tr>
<tr>
<td>sources, 1:316</td>
<td></td>
</tr>
<tr>
<td>superordinate, 2:702</td>
<td></td>
</tr>
<tr>
<td>visionary, 1:112, 1:113–114</td>
<td></td>
</tr>
<tr>
<td><strong>Goal-setting theory, 1:315–318</strong></td>
<td></td>
</tr>
<tr>
<td>cultural intelligence, 1:177</td>
<td></td>
</tr>
<tr>
<td>expectancy theory, 1:274</td>
<td></td>
</tr>
<tr>
<td>management by objectives, 1:458, 1:459</td>
<td></td>
</tr>
<tr>
<td>path-goal theory of leadership, 2:582</td>
<td></td>
</tr>
<tr>
<td><strong>Gods Must Be Crazy, The (movie), 2:717</strong></td>
<td></td>
</tr>
<tr>
<td>Goffman, Erving, 1:213, 2:673</td>
<td></td>
</tr>
<tr>
<td>Goldratt, Eliyahu M., 2:855, 2:856</td>
<td></td>
</tr>
<tr>
<td>Golem effect, 2:691</td>
<td></td>
</tr>
<tr>
<td>Good to Great (Collins), 1:445, 1:447</td>
<td></td>
</tr>
<tr>
<td>Goodwill trust, 2:770</td>
<td></td>
</tr>
<tr>
<td>Google, 1:220, 2:827</td>
<td></td>
</tr>
<tr>
<td>Gosling, Jonathan, 1:456</td>
<td></td>
</tr>
<tr>
<td>Gossip, 1:368–369</td>
<td></td>
</tr>
<tr>
<td>Gourlay, Stephen, 2:823</td>
<td></td>
</tr>
<tr>
<td>Governance inseparability, 2:891</td>
<td></td>
</tr>
<tr>
<td>Government, 1:61–62, 1:196</td>
<td></td>
</tr>
<tr>
<td>Gradualist models, 1:326–327</td>
<td></td>
</tr>
<tr>
<td>Grameen Bank, 2:722</td>
<td></td>
</tr>
<tr>
<td>Grapevine. See <strong>Informal communication and the grapevine</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Greece, ancient, 1:199</strong></td>
<td></td>
</tr>
<tr>
<td>Green Belts, 2:709</td>
<td></td>
</tr>
<tr>
<td>Greenberg, Jerald, 1:261</td>
<td></td>
</tr>
<tr>
<td>Greenwood, John L., 2:652</td>
<td></td>
</tr>
<tr>
<td>Ground, 2:694</td>
<td></td>
</tr>
<tr>
<td>Group coaching, 1:340</td>
<td></td>
</tr>
<tr>
<td>Group conflict, 1:300</td>
<td></td>
</tr>
<tr>
<td>Group coordination mechanisms, 1:371</td>
<td></td>
</tr>
</tbody>
</table>
Group empowerment, 1:189, 1:258
Group development, 1:318–322
Group dynamics, 2:730
Group empowerment, 1:233
Group fault lines, 2:733
Group gain, 2:724
Group meaningfulness, 1:233
Group mentoring programs, 1:480
Group polarization and the risky shift, 1:322–325
Group punctuated equilibrium model, 1:325–328
See also Punctuated equilibrium model
Group schemas, 2:676
Group-level expectancy effects, 2:692
Group-level goals, 1:317
Groups:
  brainstorming, 1:85, 1:86
  business, 1:92–94
  employee network, 1:480
  expectancy theory, 1:275–276
  interacting, 1:151
  large group interventions,
    1:425–426
  social, 2:729
  statistical, 1:84
  steering, 2:646
  strategic, 2:788–790
  T-groups, 2:545
Groupthink, 1:328–332
  appeal, 1:330–331
  remedies, proposed, 1:329
  research evidence, 1:329–330
  usefulness for managers, 1:331
Growth need, 2:504
Growth need strength, 1:409, 1:410
Growth needs, 1:254, 1:255, 1:274
Growth stage, 1:105, 2:665
Growth strategies, 2:620
Guest, David E., 2:637, 2:638
Guilford, J. P., 2:756
Guilick, Luther, 1:201
Gurin, Patricia, 1:449
Habermas, Jürgen, 1:163, 1:166–167
Hackman, J. Richard, 1:274, 2:909
Hall, Douglas, 2:633
Hall, Edward T., 1:182, 1:333–335
Hall, Tim, 1:106, 1:108
Hambrick, Donald, 2:918, 2:920
Hamel, Gary, 1:156, 2:668
Hammer, Michael, 1:98–99, 1:100, 1:101
Hannan, Michael T., 2:548–549, 2:550, 2:551, 2:827
Hard issues, 2:913
Hard variables, 2:702, 2:703, 2:704
Hard-data decisions, 1:452
Harkins, Stephen, 2:735
Harrigan, David A., 1:261
Harvard Business School, 2:918
Harwood Manufacturing Company, 1:274
Hauschild, Juergen, 2:616–617
Hawthorne studies, 1:355, 2:931
Headquarters, corporate, 1:95, 1:207
Health belief model, 2:866
Health impairment, 1:412
Heart disease, 2:910, 2:911
Hearty cooperation, 2:679–680
Heath, Chip, 2:800
Heath, Dan, 2:800
Hedgehog concept, 1:446
Heider, Fritz, 1:108
Helfat, Constance E., 1:918
Heller, Constance, 5:756
Henderson, Bruce, 1:446
Henderson, Luther, 1:446
Henderson, V. H., 1:446
Henderson, V. H., 5:101
Henderson, V. H., 5:207
Hersey, Paul, 1:336–338
Hewlett-Packard, 1:336–338
Herzberg, Frederick, 1:274, 1:357, 2:907–910
Heterogeneous networks, 1:18
HEXACO model, 1:78, 2:883
Hickson, David, 2:772, 2:773
Hierarchical linear modeling, 1:499
Hierarchy:
  analytic hierarchy process model, 1:34–36
  of leader characteristics, 1:445–446
Level 5 leadership, 1:445–446
Level 5 models, 2:503–505
principles of administration and management functions, 2:605
scientific management, 2:678
of systems, 2:817–818
transaction cost theory, 2:889
Hierarchy organizations, 1:123–124
Higgins, Christopher, 2:616
High- and low-context cultures, 1:333–336
Higher authority, 1:367
High-performance work systems (HPWS), 1:336–338
alignment/fit, 1:336–337
characteristics, 1:336–337
debates, current, 1:337
implications, 1:337
organizational performance, 1:337
systems perspective, 1:336
talent management, 1:337
High-performing teams, 1:338–341
High-reliability organizations (HROs), 1:341–343, 2:534–535
High-sacrifice continuance commitment, 2:527
Hill, Linda, 1:464
Hindsight bias, 1:82
Hinings, Bob, 2:632, 2:772, 2:773
Historical-hermeneutic interest, 1:166
Hitt, Michael, 2:669, 2:781
Ho, Violet, 2:637
Hodge, John, 1:368
Hodgetts, Richard M., 1:464
Hoepper, Brian, 1:365
Hofstede, Geert, 1:179, 1:180, 1:181–182, 1:183
Hofstede, Gert Jan, 1:181, 1:182
Holdup problem, 2:889
Holistic thinking, 1:439
Hollander, John L., 2:513–514
Hollander, John L., 2:725
Holmes, R. Michael, 2:631
Homans, George, 2:723
Homogeneity, 2:841
Homogeneity hypothesis, 1:48
Homologous relationships, 1:497
Hope, 1:55
Horizontal differentiation, 1:198, 2:570
Horizontal fit, 1:336–337
Horizontal technology transfer, 2:894
Horkheimer, Max, 1:166
House, Robert J.:
cultural values, 1:183
path-goal theory of leadership, 2:580, 2:581, 2:582, 2:583, 2:584
transformational theory of leadership, 2:898
How the Mighty Fall (Collins), 1:446–447
Howell, Jane, 2:616, 2:617, 2:618–619
HPWS. See High-performance work systems
HR roles model. See Human resources roles model
HRM. See Behavioral perspective of human resource management; European model of human resource management; Strategic internal human resource management
HRM strategies. See Human resource management strategies
HROs. See High-reliability organizations
Hughes, Thomas P., 2:719
Human capital developers, 1:351–352
Human capital theory, 1:343–346
  global talent management, 1:345
  humanistic management, 1:337–358
  investment theory of creativity, 1:404–405
  strategic HRM and, 1:345
Human relations, 2:545, 2:554, 2:555
Human resource management: behavioral perspective of, 1:66–72, 1:67 (figure)
  European model of, 1:262–265
  practices, positive, 2:593
  strategic, 1:345
  strategic internal, 2:792–795, 2:793 (figure)
  value chain, 2:925
Human resource management strategies, 1:346–349
  exploitation/bureaucratic, 1:347–348
  exploration/engineering, 1:346–347
Human resource systems, 1:393
Human resources leaders, 1:352–353
Human resources roles model, 1:349–354
  employee advocate, 1:350
  functional expert, 1:350–351
  HR leader, 1:352–353
  human capital developer, 1:351–352
  strategic partner, 1:352
Human Side of Enterprise, The (McGregor), 1:356, 2:874, 2:875
Humane orientation, 1:312, 1:313
Humanism, radical, 1:36, 1:37
  (figure), 1:38, 1:40
Humanistic management, 1:354–359
  corporate social responsibility, 1:358
  employees as valued human capital, 1:357–358
  management education, impact on, 1:358
Human-oriented leadership, 1:313
Humor, 2:536
Humphreys, Lloyd, 1:320
Humphreys, Patrick, 2:626–627
Hurricane Katrina, 1:171
Huselid, Mark, 1:337
Hybrid identity organizations, 2:562
Hybrid line-staff organization, 2:845
Hybrids, 2:889–890
Hygiene factors, 2:908–909, 2:910
Hypercompetition, 1:359–360
Hypernorms, 1:388–389
Iacocca, Lee, 1:445–446
IBM, 1:285, 2:623, 2:624
Idea creation/invention stage, 2:759
Idealized influence, 2:897–898
Ideas, interesting, 2:870–871
Identification:
  problem, 1:135 (figure), 1:137
  self-determination theory, 2:687
  task, 1:135 (figure), 1:137
  “unstructured” decision making, 2:916
Identity:
  collective, 2:560
  cultural, 2:730–731
  individual, 2:560
  meaning and functions of organizational culture, 1:486–487
  organizational, 2:559–563
  personal, 2:674
  role theory, 2:674
  strategic group, 2:789
  task, 1:408
  two-factor theory (and job enrichment), 2:909
See also Social identity theory
Identity orientations, 2:731
Identity strength, 1:390
Identity threat, 2:733
Identity-based trust, 2:725
Idiosyncrasy credits, 2:725
If Japan Can, Why Can't We? (documentary), 2:880
IEKA, 1:452–453, 2:923, 2:926
Illusory correlation, 1:82
Image theory, 1:361–364
  compatibility test, 1:362
  decisions, 1:362
  images, 1:362, 1:363
IMCD. See Interactional model of cultural diversity
Immutable mobiles, 1:19
Impartiality, 2:605
Imperfect competition, 1:127
Imperfect information, 1:299
Impersonal coordination mechanisms, 1:371
Impersonal written communication, 1:370
Implementers, 2:618
Implicit theories of culture, 2:537–538
Impoverished management, 1:475
Impression management, 1:257–258, 1:259, 2:685
Improper linear models, 1:83
Improvement, continuous. See Kaizen and continuous improvement
Improvement stage, 2:648, 2:650
In Search of Excellence (Peters & Waterman), 2:703–704
In Search of Management (Watson), 1:466
Inaction, 1:140
Inattentive blindness, 1:472
Inbound logistics, 2:924
Incentive systems, 2:632, 2:679
Inclusion, 1:497
Incompatible options, 1:361
Incomplete information, 1:299
Incremental change, era of, 2:823–826
Incremental innovations, 1:44
Incrementalism, logical, 1:451–453
Incrementalist approach, 1:153
Incubation and illumination, 2:757
Independence, 1:106
See also Interdependence
Independent self-construals, 2:683
India, 2:722
Indifference, zone of, 1:293–294
Individual attributes, 2:513, 2:593
Individual biases, 2:776
Individual conflict, 1:300
Individual creativity from
interactionist perspective,
1:395–396
Individual empowerment, 1:233
Individual flourishing and well-being,
2:593
Individual identity, 2:560
Individual learning, 1:441
Individual projects, 1:12
**Individual values, 1:364–366**
Individualism:
cultural values, 1:181, 1:182–183, 1:184
product champions, 2:618
stewardship theory, 2:768
theory of cooperation and
competition, 2:858
Individualized socialization, 2:567
Individual-level self-concept, 2:683
Individual-occupation fit, 2:513
Induced forces, 1:288–289
Inducements and contributions
to, 2:842
Inducibility, 2:858
Indulgence, 1:182, 1:184
**Industrial and Organizational**
*Psychology* (journal), 1:3
Industrial development stages,
1:196–197
**Industrial Organization**
(Woodward), 2:843–844, 2:845
Industrial organization economics,
2:667
Industrial organization perspective,
1:284
Industries, related and supporting,
1:195
Industry evolution, 2:623
Inequity:
advantageous, 1:249–250, 1:251–252
disadvantageous, 1:249–250, 1:252
Inertia, 1:159, 2:550–551, 2:783
Influence:
charismatic theory of leadership,
1:114–115
idealized, 2:897–898
situation, 1:68
sources, 2:734
strategies, 1:366–367
styles, 1:367
transactional, 1:114
transactional, 1:114
**Influence tactics, 1:366–367**
Influencer stake, 2:763
Informal activities, 1:464–465
Informal behavioral practices, 2:536
**Informal communication and the**
*grapevine*, 1:368–369
Informal cooptation, 1:154
Informal integration, 1:392
Informal mentoring programs, 1:480
Informal networks, 2:744–745
Informal organizations, 1:292
Information:
access to, 2:811
aggregation process, 2:776
causal attribution theory, 1:109
complete, 1:299
consensus, 1:109
consistency, 1:109
distinctiveness, 1:109
imperfect, 1:299
incomplete, 1:299
perfect, 1:299
strategic contingencies theory,
2:772
types, 1:109
Information and communication
technologies, 1:222–23
Information overload, 1:208
Information power, 2:748
Information processing, 1:82, 1:83,
2:736–740
**Information richness theory,**
1:369–372
Information structure, 1:299
Information systems, 2:790–792,
2:832–835
Information technology, 1:99–100
Informational roles, 1:463
Information-process theory, 1:247
Infrastructure, 2:925
Infusion of value, 1:380
Inglehart, Ronald, 1:180, 1:183
Ingratiators, 1:367
Initiating structure, 2:582
Initiatives, 2:605
Injunctive norms, 2:509
Ink, electronic, 1:136, 1:137
Inkeles, Alex, 1:182
Innovation:
administrative, 1:218, 1:219–221
architectural, 1:44–45
coupled, 2:516–517
defined, 1:373, 2:758
differentiation and the division of
labor, 1:199
disruptive, 2:826
Drucker, Peter, 2:595
dual-core model of organizational,
1:218–221
entrepreneurial orientation, 1:243
incremental, 1:44
inside-out, 2:516
management, 1:372
modular, 1:44
open, 2:514–518
organizational structure and
design, 2:570–571, 2:572
outside-in, 2:515–516
patterns of, 2:585–588
profiting from, 2:622–625
radical, 1:44
stages of, 2:758–762
technical, 1:218, 1:219, 1:220–221
See also **Innovation diffusion;**
Innovation speed
**Innovation and Entrepreneurship**
(Drucker), 2:595
Innovation development stage,
2:759–760
**Innovation diffusion, 1:372–377**
institutional theory, 1:380, 1:382
stages of innovation, 2:762
Innovation implementation
(adoption) stage, 2:760–761
**Innovation speed, 1:377–379**
advantages, 1:378
benefits, 1:378
innovation diffusion, 1:373
“trade-offs,” 1:379
Innovation-driven competitiveness,
1:197
Innovators, 2:618
In-organization schemas, 2:676
Inputs, 1:249
Inputs-processes-outputs (IPO)
models, 2:928, 2:932
Inquiry, 1:41–43, 2:609–610
Inquiry into the Nature and Causes
of the Wealth of Nations, An
(Adam Smith), 1:198–199, 2:725–726
Inseparability, 2:891
Inside-out innovation, 2:516
Insider/outsider team research, 1:2
Insiders, role of, 2:567
Institutional distance, 1:386
Institutional entrepreneurs, 1:382, 2:718
Institutional environment, 2:506–507
“Institutional Organizations” (Meyer & Rowan), 1:380

Institutional theory, 1:379–384
dialectical theory of organizations, 1:192
infusion of value, 1:380
innovation diffusion, 1:380, 1:382
isomorphism, 1:381
legitimacy, 1:381
loose coupling, 1:380
rational myths, 1:380
social construction theory and, 2:718

Institutional theory of multinational corporations, 1:384–387
Institutional work, 1:382
Institutionalism:
comparative, 1:385, 1:386
new, 1:381–382, 1:385
old, 1:381, 1:385
organizational, 1:385, 1:386
Institutionalization, 2:506–507, 2:717
Institutionalized socialization, 2:567
Institutions, bridging, 1:3
Instrumental leadership, 2:898
Instrumental values, 1:365
Instrumentality, 1:272–273, 1:274
Insulin, 1:196
Integrated accounting framework, 2:649
Integration:
accluturation strategies, 1:6
informal, 1:392
moral reasoning maturity, 1:491
organizational culture theory, 2:537
organizational structure and design, 2:570, 2:571–572
scholarship of, 1:234
structural, 1:392
transnational management, 2:901
Integration-and-learning perspective, 1:480
Integrative bargaining, 2:602
Integrative dimension, 1:140, 1:141, 1:141 (figure)
Integrative negotiation. See Principled negotiation
Integrative social contracts theory (ISCT), 1:387–389
Integrity, 2:905
Intellect, 1:77
Intellectual property, 2:516
Intellectual stimulation, 2:897
Intelligence:
cognitive, 1:225–226, 1:227, 2:884
cognitive resource theory, 1:120
cultural, 1:175, 1:176–179, 2:884
emotional and social, 1:225–229, 2:884
leadership and, 2:884
trait theory of leadership, 2:884
Intended strategy, 1:290
Intensive technology, 2:839
Intent, behavioral, 1:231, 2:865, 2:866
Interacting groups, 1:151
Interaction:
interdependent, 2:723
interpersonal, 2:521, 2:522
lack of, 2:858
oppositional, 2:858
promotive, 2:858
social construction theory, 2:716
strategic, 2:789
temporal, 1:299
Interaction order, 1:213
Interaction patterns, 2:858
Interactional injustice, 1:282
Interactional model of cultural diversity (IMCD), 1:389–394
Interactional perspective, 2:862–863
Interactionist model of ethical decision making. See Ethical decision making, interactionist model of
Interactionist model of organizational creativity, 1:394–398
Interactionist perspective on behavior, 1:395
Interactionist role theory, 2:673, 2:674
Interdependence:
competitve, 2:660–661
complexity theory and organizations, 1:130, 1:131
defined, 2:839
lean enterprise, 1:439
organizational structure and design, 2:571
pooled, 2:571, 2:839, 2:841
reciprocal, 2:571, 2:839, 2:841
sequential, 2:571, 2:839, 2:841
social exchange theory, 2:723
social interdependence theory, 2:857–858
technology and, 1:246, 2:838–843
work team effectiveness, 2:931
Interdependence interactions, 2:723
Interdependent self-construals, 2:683
Interesting, theory of the, 2:870–872
Interests:
emancipator, 1:166–167
historical-hermeneutic, 1:166
knowledge-constitutive, 1:166–167
practical, 1:166
principled negotiation, 2:603
self-interest, 2:723, 2:725
subordination of private, 2:605
technical, 1:166
Intergroup conflict, 1:391–392
Intergroup relations, 2:732
Intergroup trust, 2:906
Interruption, 2:687
Intermittent reinforcement, 2:656
Internal attributions, 1:51, 1:52
Internal Business Processes dimension, 1:61
Internal capital market, 1:208
Internal congruence model, 2:554, 2:555
Internal control mechanisms, 1:32
Internal esteem needs, 2:503
Internal fit, 2:796
Internal locus of control, 1:261, 2:869
Internal power, 2:660, 2:661, 2:663
Internal tensions, 2:771
Internalized moral perspective, 1:54
Internalizing, 2:687
International firms, 1:174–175, 2:900
International Masters in Practicing Management, 1:457
International norms, 1:162–163
International relations, 1:133–134
Interpersonal interactions, 2:521, 2:522
Interpersonal networks model, 2:564, 2:565
Interpersonal Power Inventory, 2:749
Interpersonal relations, 1:465
Interpersonal relationships, 2:724–725
Interpersonal roles, 1:463
Interpersonal self-concept, 2:683
Interpersonal systems in negotiation, 2:601
Interpersonal trust, 2:906
Interpretation, depth of, 2:536–537
Interpretive paradigm, 1:36, 1:37 (figure), 1:38
Interval schedule, 2:656
Intervention:
  bystander, 2:738
  large group, 1:425–426
  paternalistic, 1:84
Intraorganizational power, 2:772–774
Intrapersonal systems in negotiation, 2:601
Intrinsic life goals, 2:689
Intrinsic motivation:
  expectancy theory, 1:273, 1:274, 1:275–276
  human resource management strategies, 1:347
  self-determination theory, 2:686, 2:688
  stewardship theory, 2:768
  theory of the interesting, 2:871
Intrinsic rewards, 2:658
Introversion, 2:639, 2:640
Intuition:
  creative, 1:402–403
  moral, 1:402, 1:403
  problem-solving, 1:402, 1:403
  psychological type and problem-solving styles, 2:639, 2:640, 2:641
Intuitive decision making, 1:401–404
  decision-making styles, 1:188
  effectiveness, 1:402
  future research, 1:403
  measuring, 1:403
  types, 1:402–403
  Involvement, 2:618
  Inventory, 2:855
  Investment theory of creativity, 1:404–406
  Investment-driven competitiveness, 1:197
  Investments, 2:889, 2:892
  “Invisible hand,” 2:725
  Involve ment, 1:132–133
  Involvement orientation, 2:768
  IPO models. See Inputs-processes-outputs models
  Ireland, Duane, 2:669
  “Iron Cage Revisited, The” (DiMaggio & Powell), 1:381, 1:382
  Ironic appropriations, 1:24
ISCT. See Integrative social contracts theory
Ishikawa, Kaoru, 2:645, 2:882
Isolates, 1:368
Isolation effect, 2:630–631
Isomorphism:
  coercive, 1:381
  institutional theory, 1:381
  institutional theory of multinational corporations, 1:385, 1:387
  mimetic, 1:381
  multilevel research, 1:497
  normative, 1:381
  structural, 2:507
  Italy, 1:195
  Iterative tautologies, 1:215
Jackson, Jeffrey M., 2:736
Jacobson, Joe, 1:136, 1:137
Jago, Arthur, 2:577
James, William, 2:867–868
Janis, Irving, 1:328, 1:329, 1:330, 1:331
Japan:
  diamond model of national competitive advantage, 1:194
  quality circles, 2:645, 2:646
  Seven-S framework, 2:703
  total quality management, 2:879, 2:882
  “unstructured” decision making, 2:917
Japanese Standard Association, 2:879
Jargon, organizational, 2:536
Jarvenpaa, Sirka, 1:100, 1:101
Javidan, Mansour, 1:175
JCT. See Job characteristics theory
JD–R model. See Job demands–resources (JD–R) model
Jensen, Mary Ann, 1:320
Jensen, Michael, 1:31, 2:554
Jermier, John M., 2:584, 2:809, 2:810
Job attitudes, 2:737, 2:738, 2:739
Job attributes, 2:737, 2:738
Job characteristics theory (JCT), 1:407–410, 1:408 (figure), 2:909
Job crafting, 1:275
Job demands–resources (JD–R) model, 1:410–413
Job design, 1:274, 2:673–674, 2:752
Job Diagnostic Survey, 1:274
Job enrichment. See Two-factor theory (and job enrichment)
Job resources, 1:411–412
Job satisfaction, 1:29, 1:355, 1:450, 2:908
Job structures, 2:678
Joint tasks, 1:27–28
Journals, bridging, 1:3–4
Judging, 2:639, 2:640
Judgment, 1:266–267, 2:775–776, 2:906
Judgment-driven behavior, 1:29
Juran, Joseph M., 2:647, 2:879
Justice, 1:282, 2:764
Justification, 2:853
Just-in-time production, 2:909
Kahn, Robert L., 1:202, 1:465, 2:673, 2:817
Kahneman, Daniel:
  bounded rationality and satisficing, 1:80, 1:82
  intuitive decision making, 1:402
kaizen and continuous improvement, 1:416
managerial decision biases, 1:471
prospect theory, 2:628, 2:629–631
Kaizen and continuous improvement, 1:415–417
Kaleidoscopic self, 2:683
Kamrad, Ingvår, 1:452–453
Kanter, Rosabeth Moss, 1:466, 2:539
Kanungo, Rabindra, 1:451
Kaplan, Robert S., 1:60, 1:61, 1:62, 1:63
Karaus, Steven J., 2:735
Kata, 1:416
Katrina, Hurricane, 1:171
Katz, Daniel, 2:657
Katrina, Hurricane, 1:171
Katz, Daniel, 2:665, 2:673, 2:817
Kauffman, Stuart, 1:130
Kauffman NK model, 1:130, 1:131
KBV. See Knowledge-based view of the firm
Kelley, Harold, 1:109, 1:110, 2:723
Kennedy, John, 2:747
Keesing, Thomas, 2:863
Kerr, Steven, 2:658, 2:809, 2:810, 2:817
Kessinger, Eric, 2:521, 2:523, 2:631
Kets de Vries, Manfred F. R., 1:339–340
Keyboard layout, 2:719
Kibbutzer stake, 2:763
Kim, Myung Un, 1:330
Kirkner, Israel, 1:203–204, 1:242
Kish-Gephart, J. J., 1:261
Kittler, Markus, 1:335
Kluckhohn, Florence, 1:180, 1:182
Knight, Frank, 1:205
Knowledge:
codified, 1:157
cultural, 2:715–716
explicit, 1:157
external, 1:422
focal, 2:821, 2:822
game theory, 1:300
job characteristics theory, 1:409, 1:410
organizational and managerial wisdom, 2:523
organizational knowledge creation, 2:822–823
refined, 2:716
of results, 1:407, 1:408
scientific, 1:266, 2:825
sharing of, 1:1–4, 2:506–507
social, 2:715–716
socially distributed, 2:716
sociology of, 2:716–717
subsidiary, 2:822
See also Tacit knowledge
Knowledge gaps, 1:90
Knowledge networks, 1:418, 1:419
Knowledge workers, 1:417–421
attributes, common, 1:417–418
challenges in leading, 1:420
leading, 1:419–420
management changes, fundamental, 1:418–419
productivity principles, 1:418
Knowledge-based trust, 1:418
Knowledge-based view of the firm (KBV), 1:156–157, 1:421–424
Knowledge-constitutive interests, 1:166–167
Knowledge-Creating Company, The (Nonaka & Takeuchi), 2:822–823
Knowledge-driven decision-support systems, 1:186
Kohlberg, Lawrence: cognitive moral development theory, 1:489, 1:490, 1:491, 1:492, 1:493
ethical decision making, interactionist model of, 1:260
Kolb, David, 1:277
Kolb Learning Style Inventory, 1:277, 1:278–279
Kopelman, Richard, 2:876
Koslowsky, Meni, 2:749
Kotter, John, 1:466, 2:797–798, 2:799
Kracker, David, 2:745
Kreitner, Robert, 2:657
Kuhn, Thomas M., 1:37, 2:825
Kwon, Seungwoo, 1:217–218
Labor, division of. See Differentiation and the division of labor
Lachman, Ran, 2:773, 2:774
Lai, Olivia, 1:435
Laissez-faire leadership, 2:897
Lakoff, Robin, 1:310
Lampton, David, 1:133–134
Language, 1:310, 2:717
Large group interventions (LGIs), 1:425–426
Latané, Bibb, 2:733, 2:734, 2:735, 2:736
Late finish, 1:304, 1:305
Late start, 1:304, 1:305
Latham, Gary P., 1:253, 1:317
Latour, Bruno, 1:19–20, 1:22
Law, John, 1:21–22
Law of effect, 2:657
Lawler, Edward, 2:658, 2:724
Lawrence, Paul R.: contingency theory, 1:145, 1:146, 1:147
differentiation and the division of labor, 1:202
matrix structure, 1:483
organizational structure and design, 2:573, 2:574
Lax, David, 2:603
Layoffs, 2:617–18, 1:450
LCT. See Leadership continuum theory
Lead users, 1:427–429
Leader behavior, dimensions of, 1:474–475
Leader categorization theory, 2:886
Leader effectiveness, 2:885–886
Leader performance, 2:885–886
Leader-member exchange theory (LMX), 1:429–433
antecedents, 1:431
consequences, 1:430
contingency theory of leadership, 1:149–150, 1:151
development, 1:430–431
practice, implications for, 1:432
Leadership: attribution model of, 1:50–53
authentic, 1:53–56
autonomous, 1:313
Big Five personality dimensions, 1:79
contingency theory of, 1:148–152
dark side of, 2:886–887
defined, 2:747
democratic, 1:276
dual-core model of organizational innovation, 1:220
empowerment, 1:232
executive, 2:709
GLOBE model, 1:313
human-oriented, 1:313
instrumental, 2:898
laissez-faire, 2:897
Level 4, 1:443–446
Level 5, 1:444–448
management roles, 1:463
participative, 1:313
path-goal theory of, 2:580–584, 2:706
positive, 2:593
relationship-oriented, 1:149–150, 1:151, 2:810
role of, 1:220
self-protective, 1:313
servant, 2:698–702
situational theory of, 1:151, 2:580, 2:582, 2:704–707
stages of innovation, 2:760
substitutes for, 2:584, 2:809–812
task-oriented, 2:810
team-oriented, 1:313
transactional, 1:151, 2:896–897
transformational theory of, 1:220, 1:274, 2:896–899
value-based, 1:312–313, 2:583
Leadership continuum theory (LCT), 1:433–435
assessment, 1:434–435
forces, 1:434
situational theory of leadership and, 2:705
Leadership experience, 1:120–121
Leadership group coaching, 1:340
Leadership orientation, 1:149
Leadership position power, 1:149, 1:152
Leadership practices, 1:435–438
Leadership Practices Inventory, 1:437
Leadership spectrum, 1:146
Leadership style, 1:474, 1:475–477, 2:582
Leadership Teams (Sheard, Kakabadse, & Kakabadse), 1:321–322
Lean enterprise, 1:438–440
Lean management, 1:416
Lean production, 1:415, 1:438
Learned helplessness, 1:52, 1:110
Learning:
action, 1:11–14, 1:455
action and, 1:210
avoidance, 2:655–656
close, 1:457
continuous and routinized change, 1:153
defined, 1:440
double loop, 1:210–213
engagement and, 2:716
experiential learning theory (ELT) and learning styles, 1:276–279, 1:278 (figure)
individual, 1:441
observational, 2:713–714
positive organizational scholarship, 2:594
single loop, 1:210, 1:211, 1:212
social cognitive theory, 2:713–714
social learning theory, 1:448, 1:450
team, 1:12
See also Learning organization;
Organizational learning
Learning and Growth dimension, 1:61
Learning coaches, 1:12, 1:13
Learning curves, organizational, 2:564–565
Learning goals, 1:300
Learning organization, 1:13, 1:440–444, 2:753–754
Learning styles. See Experiential learning theory and learning styles
Leary, Mark, 2:682
Least preferred coworker, 1:148, 1:149, 1:150, 1:151–152
Lee, C. A., 2:772, 2:773
Lee, J., 2:789
Lee, K., 2:789
Lefcourt, Herbert, 1:449
Lefebvre, Henri, 1:192
Left-censoring in data collection, 1:285–286
Legal responsibilities, 1:170–171
Legislastic control system, 1:462
Legitimacy, 1:381, 2:548, 2:551
Legitimacy vacuum effect, 1:286
Legitimate power, 2:747–748
Legitimate reservation categories, 2:836
Lemonade principle, 1:240
Lens, positive, 2:592, 2:593
Level 4 leadership, 1:445–446
Level 5 leadership, 1:444–448
Level variables, 2:816
Leveraging resources, 2:664
Levinson, Daniel, 1:182, 2:632
Levinson, Harry, 2:637
Lewicki, Roy J., 2:725
Lewin, Kurt:
action research, 1:16
expectancy theory, 1:272–273, 1:276
force field analysis and planned change, 1:287, 1:288, 1:290
organizational development, 2:543–544
theory development, 2:854
Lewis, Laurie K., 2:577, 2:578–579
LGIs. See Large group interventions
liability of foreignness, 1:386
liaisons, 1:368, 1:463
Liberalism, 1:57–58
Lichtenhaufer, Ulrich, 2:618
Lieberman, Marvin B., 1:285, 1:286–287
Liesberskind, Julia, 2:891
Life cycle model, 2:613, 2:928
Life cycle stage of a firm, 2:665–666
Lifestyle, 1:107
Likert, Jeffrey K., 1:269, 1:416
Likert, Rensis, 1:275–276, 2:546, 2:554
Lilienthal, David, 1:174
Lim, Stephen, 1:327
Lindblom, Charles, 1:451
Line organization, 2:845
Linear models, 1:83, 1:326–327, 1:499
Linguistic styles. See Genderlect and linguistic styles
Litwin, George H., 2:543
Living Systems (Miller), 2:818
LMX theory. See Leader–member exchange theory
Local adaptations, 2:613
Locke, Edwin, 1:177, 1:317
Locus:
agency, 2:714
behavioral, 2:714
of causality, 1:51, 1:109
victim, 2:714
Locus of control, 1:448–451
ethical decision making, interactionism model of, 1:261
external, 1:261
internal, 1:261, 2:869
measuring, 1:449
theory of self-esteem, 2:869
Loevinger, Jane, 1:489–491, 1:492, 1:493
Logic, 1:267, 2:521, 2:522
Logical incrementalism, 1:451–453
Logical thinking processes, 2:856
Logistics, 2:924
Logrolling, 2:603
Long-linked technologies, 2:839, 2:840
Long-term orientation, 1:181–182, 1:184, 2:771
Loops, negative feedback, 2:816–817
Loose coupling, 1:380, 2:695–696
Lorsch, Jay W.: contingency theory, 1:145, 1:146, 1:147
differentiation and the division of labor, 1:202
matrix structure, 1:483
organizational structure and design, 2:573, 2:574
Loss aversion, 1:257, 1:258, 1:259
Low-alternatives continuance commitment, 2:527
Low-context cultures. See High- and low-context cultures
Lubart, Todd, 1:404, 1:405–406
Luck attributions, 1:25
Luckmann, Thomas, 2:717, 2:718
Lumpkin, Tom, 1:243

Macro-level processes of structural change, 2:506–507
Macrosocial contracts, 1:388
Mael, Fred, 2:557
Maier, Mark, 1:330
Mainiero, Lisa, 1:106, 1:108
Maintenance, 1:106, 2:873
Make-or-buy decision, 2:888–889, 2:890, 2:892
Malcolm Baldrige National Quality Award, 1:269–270, 2:880
Malinowski, Bronislaw, 2:726
Management:
country-club, 1:475
evidence-based, 1:3, 1:265–268
humanistic, 1:354–359
impoveryished, 1:475
impression, 1:257–258, 1:259, 2:685
lean, 1:416
organization-man, 1:475
principles of administration and management functions, 2:603–608
resource orchestration, 2:664–666
scholarship in, 1:58–59
strategic, 1:243–244, 1:284, 2:667
sustainability, 2:649–650
team, 1:475, 1:476
transnational, 2:899–902
See also Scientific management
Management (education) as practice, 1:455–458
Management by exception, 2:897
Management by objectives (MBO), 1:458–460, 2:681
Management control systems, 1:460–462
Management education, 1:358
Management information systems, 2:832–835
Management innovations, 1:372
Management roles, 1:462–467
Management symbolism and symbolic action, 1:467–470
Manager communications, 1:370
Managerial cognition theory, 2:789
Managerial complexity, 1:208–209
Managerial decision biases, 1:470–474
Managerial discretion, 1:208, 2:919–920
Managerial grid, 1:474–477
leader behavior, dimensions of, 1:474–475
leaderhship style and effectiveness, 1:476–477
leaderhship style explanations and measurement, 1:475–476
leaderhship style types, 1:475
situationl theory of leadership, 2:705–706
Managerialism, 1:477–479
“Manager's Job, The” (Mintzberg), 1:465–466
Managing Across Borders (Bartlett & Ghoshal), 2:899
Managing diversity, 1:479–482
Mandates, 1:214, 1:215
Manipulation, 2:756–757
Mann, Floyd, 2:546
Mannheim, Karl, 2:717
Maps, strategy, 1:62
March, James:
behavioral theory of the firm, 1:72, 1:73, 1:75
learning organization, 1:442
organic and mechanistic forms, 2:519
organizational learning, 2:563, 2:564
technology and interdependence/uncertainty, 2:842
Marcuse, Herbert, 1:166
Marginalization, 1:6
Market control systems, 1:461–462
Market development, 2:620
Market driven diffusion, 1:374, 1:375–376
Market organizations, 1:124
Market penetration, 2:620
Market power, 1:207–208
Market structure, endogeneity of, 1:128
Market uncertainty, 1:246
Marketing and sales, 2:924
Markets, 1:95, 1:405, 2:889
Markham, Stephen, 2:616
Markowitz, Harry, 1:83
Martin, Jeffrey, 1:442, 2:669
Marx, Karl, 1:38, 1:200–201, 2:501
Marxist tradition, 1:168, 1:191, 1:192, 1:199
Masculinity, 1:181, 1:184
Maslow, Abraham:
ERG theory versus, 1:254, 1:255
expectancy theory, 1:274
humanistic management, 1:356, 1:357
needs hierarchy, 2:503–505
Mason, Phyllis, 2:918, 2:920
Master Black Belts, 2:709
Matrix structure, 1:482–484
Mature stage, 2:665
Mausner, Bernard, 2:907
Mauss, Marcel, 2:726
Mayer, John D. (Jack), 1:225, 1:226
Mayer, Roger C., 2:602, 2:905, 2:906
Mayer Salovey Caruso Emotional Intelligence Test, 1:226
Mayo, Elton, 1:292, 1:355
MBO. See Management by objectives
McCance, Anne Adams, 1:474, 1:476
McClelland, David, 1:8–10, 1:227, 1:228
McGrath, David, 1:8–10, 1:227, 1:228
McKelvey, Bill, 1:236
McKerlie, Robert, 2:601–602
McKinsey’s 7S framework. See Seven-S framework
Mead Paper Corporation, 1:64
Mean, regression to the, 1:471
Meaning, 1:229, 2:716
Meaning and functions of organizational culture, 1:484–487
Meaningfulness, 1:233, 1:407–408, 1:409, 2:590–591
Means, Gardiner C., 1:31, 1:477–478
Means efficacy, 2:691, 2:692
Means-end framework, 1:203
Measurement, level of, 1:498
Mechanical solidarity, 1:200
Mechanism design theory, 1:303
Mechanistic decision making, 2:627–628
Mechanistic forms. See Organic and mechanistic forms
Meckling, William H., 1:376
Men and Women of the Corporation (Kanter), 1:466
Mentoring programs, 1:480, 1:481
Mentors, 2:760
Merchant, Ken, 1:63
Message content, 1:370
Metacognition, 1:177, 1:238, 2:886
Metacognitive and cognitive facet, 1:176, 1:177, 1:178, 1:179
Metaphysics, 2:522
Methods for Creating the Future category, 1:426
Methods for Whole System Participative Work category, 1:426
Methods for Work Design category, 1:426
M-form organizations, 1:376
Micro-level processes and decision making, 2:507
Microsocial contracts, 1:388–389
Microsoft, 2:622, 2:624
Microsoft Project, 1:306
Middle management, 2:665, 2:798, 2:799
Middle-range theories, 2:850–852
Miles, Raymond E., 2:796
Military socialization, 2:566–567
Miller, Danny, 1:243, 2:651–652, 2:653
Miller, George, 1:81
Miller, J. G., 2:818
Mimetic isomorphism, 1:381
Mind-set, 1:175, 2:633
Miner, John B., 1:253
Minimal group paradigm, 2:731
Minimum crucial specification, 2:752
Minkov, Michael, 1:181, 1:182, 1:183
Minnesota Innovation Research Program, 2:759, 2:760
Mintzberg, Henry: management (education) as practice, 1:456
Management roles, 1:463–464, 1:465–466
modes of strategy: planned and emergent, 1:488
quantum change, 2:652
“unstructured” decision making, 2:916–917
Mirvis, Philip, 1:106, 1:108
Misattribution, 1:472
Mishra, Jitendra, 1:368
Mixed strategy, 1:297–298
MNCs. See Multinational corporations
Mobiles, immutable, 1:19
Mobility barriers, 2:789
Mode 1 research, 1:2, 1:17
Mode 2 research, 1:2, 1:17
Model of man, 1:83
Model of occupational types. See Occupational types, model of
Model-driven decision-support systems, 1:186, 1:187
Modeling, 1:435–436, 2:713–714
Modeling-as-theorizing process, 2:851
Moderators, 2:646, 2:852
Modernism, 1:90, 1:91
Modes of strategy: planned and emergent, 1:487–489
Modular innovation, 1:44
Modular organizations, 1:495
Mohr, Larry, 2:554
Molm, Linda D., 2:724
Monday morning quarterbacking, 1:82
Monitoring, 1:31, 2:728, 2:885–886
Monitors, 1:463
Monochronic, sequential time, 1:334
Montgomery, Cynthia, 1:95
Montgomery, David B., 1:285, 1:286–287
Moore’s law, 2:847
Moral commitment, 1:293
Moral development: cognitive, 1:260
conventional level, 1:490, 1:492
postconventional level, 1:260, 1:490, 1:492
preconventional level, 1:260, 1:490
principled level, 1:260
Moral intuition, 1:402, 1:403
Moral perspective, internalized, 1:54
Moral reasoning maturity, 1:489–493
Morgan, Gareth, 1:36–37, 1:38, 1:39–40
Morgenstern, Oskar, 1:302
Mork, Casey, 1:436
Motivating Potential Score, 1:408–409, 1:410
behaviorist theory of, 1:254
controlled, 2:686–687
cultural intelligence, 1:176, 1:177–178, 1:179
employee, 2:581
empowerment, 1:232
expectancy theory, 1:272, 1:273, 1:274, 1:275–276
extrinsic, 1:273, 1:274, 1:348, 2:686–687
inspirational, 2:897
path-goal theory of leadership, 2:582
product champions, 2:618
self-determination theory, 2:686–690
social cognitive theory, 2:712
Motivation to Work, The (Herzberg, Mausner, & Snyderman), 2:907
Motivational synergy, 1:137, 1:138
Motivators, 2:908, 2:910
Motorola, 2:707–708, 2:709–710
Movement stage, 1:288, 1:289, 1:290
Movements, social, 2:740–742
Muller, James, 2:616
Multicultural work teams, 1:493–495
Multiculturalism, 1:6
Multidivisional structures, 1:376
Multifactor Leadership Questionnaire, 2:897
Multifirm network structure, 1:495–496
Multilevel research, 1:496–499
Multinational corporations (MNCs): cultural attitudes in, 1:173–176
defined, 1:174
effectiveness, 2:794–795
ethnocentric, 1:173, 1:174
geocentric, 1:173, 1:174
institutional theory of, 1:384–387
polycentric, 1:173, 1:174
regiocentric, 1:173
strategic internal human resource management, 2:792–793, 2:794–795
transnational management, 2:899–902
Multiple constituencies model, 2:554
Multiple-commitment approach, 2:528
Multiplexity, 2:744
Multistage games, 1:299
Munich, 1:247
Murnighan, J. Keith, 1:327
Myers Briggs Type Indicator, 1:77–78, 2:639–642
Myths, national, 1:380
Narcissism, 2:886
Narrative (story) theory, 2:501–503
Nash equilibrium, 1:299, 1:302
Natural soldiering, 2:678, 2:680
Natural systems theories, 2:817
Natural variation, 2:708
Nature of Managerial Work, The (Mintzberg), 1:463–464, 1:465
“Nature of the Firm, The” (Coase), 2:888
Nature versus nurture debate, 1:395
Needed behaviors, 1:68–69
Needs: (basic psychological, 2:686, 2:687–688
belongingness, 2:503
competence, 1:254
concrete, 1:254
deficiency, 2:504
esteem, 2:503
existence, 1:254
external esteem, 2:503
growth, 1:254, 1:255, 1:274
internal esteem, 2:503
physiological, 2:503
relatedness, 1:254, 1:255
safety, 2:503
social, 2:720
Negativity feedback loops, 2:816–817
Negotiation: (conflict management, 1:139
defined, 2:600
interpersonal systems in, 2:601
intrapersonal systems in, 2:601
of meaning, 2:716
membership, 2:524
principled, 1:142–143, 2:599–603
unprincipled, 2:599–600, 2:601, 2:603
Negotiators, 1:464
Neo-institutional theory, 2:505–508
Net energy load, 1:308
Netnography, 2:516
Network theory, 1:131
See also Social network theory
Networks: (change over time, 1:399–400
heterogeneous, 1:18
informal, 2:744–745
interorganizational, 1:398–401
interpersonal networks model, 2:564, 2:565
knowledge, 1:418, 1:419
social network theory, 2:742–746
Neurocultural theory, 2:860
Neuroscience research, 1:227–228
Neuroticism, 1:76–77, 2:640
Neutralizers, 2:811
New institutionalism, 1:381–382, 1:385
New management paradigm, 2:877
New Science of Management Decisions, The (Simon), 2:626
Newbert, Scott L., 2:669–670
Nexus of contracts, 1:31
Niche width, 2:548–549, 2:551, 2:552
Nike, 2:925–926
NK model, 1:130, 1:131
Nonaka, Ikujiro, 2:822–823
Non-equity alliances, 2:769
Nonprofit sector, 1:61, 1:62
Nonprogrammed decisions, 2:626
Nonsocial comparisons, 2:684
Non-substitutability, 2:772
Non-theory, 2:854
Normal accident theory, 1:342
Normal science, 2:825
Normative beliefs, 2:866
Normative commitment, 2:527, 2:557
Normative decision model, 2:577–578, 2:579
Normative isomorphism, 1:381
Normative power, 1:132, 1:133
Norming stage, 1:301, 1:319, 1:321–322
Norms: authentic, 1:388
cultural intelligence, 1:177–178
descriptive, 2:509
injunctive, 2:509
international, 1:162–163
subjective, 2:865, 2:866
Norms theory, 2:508–511
Norton, David, 1:60, 1:61, 1:62, 1:63
Not-invented-here syndrome, 2:515, 2:613
Novelty, environmental, 1:246
Nudge (Thaler & Sunstein), 2:799
Nudge model, 2:799
Oakland, John, 2:878
Object/concept-in-organization schemas, 2:676
Objectification, 2:717
Objectives, management by, 1:458–460, 2:681
Obligations, 2:635
Obligatory passage points, 1:116
Obiliging, 1:140
OBSE. See Organizationaly based self-esteem
Observation, reflective, 1:277, 1:278 (figure)
Observational learning, 2:713–714
Obstfeld, David, 1:342
OC theory. See Organizational commitment theory
OCB. See Organizational citizenship behavior
Occupational attributes, 2:513
Occupational types, model of, 2:513–514
OD. See Organizational development
Offe, Claus, 1:191, 1:192
Ohio State Leadership Studies, 1:474, 1:476
Old institutionalism, 1:381, 1:385
Oldham, Greg R., 1:274
OMW. See Organizational and managerial wisdom
"On the Folly of Rewarding A, While Hoping for B" (Kerr), 2:658
"One More Time" (Herzberg), 2:909
"One step forward, two steps back" stage, 1:322
On-the-job training, 1:344
Open approach, 2:579
Open innovation, 2:514–518
coupled innovation, 2:516–517
defined, 2:515
inside-out innovation, 2:516
outside-in innovation, 2:515–516
Open skills, 2:873
Open source, 2:517
Open Space Technology, 1:425, 1:426
Openness, 1:77, 2:618
Operant conditioning/learning. See Reinforcement theory
Operating expenses, 2:855
Operation stage, 2:770
Operations, value chain, 2:924
Operations research, 1:187
Opportunities:
alertness to, 1:203, 1:204, 1:205, 1:237, 1:242
creation, 1:241, 1:242
defined, 1:241
discovery, 1:241–242
discovery theory of entrepreneurship, 1:203, 1:204, 1:205
trepreneurial, 1:241–242, 1:247
Leadership practices, 1:436
recognition, 1:241
searching for, 1:436
social entrepreneurship, 2:720
SWOT analysis framework, 2:812–815
Opportunity decisions, 2:916
Opposition, 2:617
Oppositional interaction, 2:858
Optimism, 1:55
Optimistic attributions, 1:110
Options:
compatible, 1:361
incompatible, 1:361
real, 2:780, 2:784
Order, 2:605
Order fulfillment process, 1:99, 1:101
Ordinary capabilities, 1:221–222
O’Reilly, Charles, 2:827
Organ, Dennis W., 2:724
Organ donation, consent for, 1:84
Organic and mechanistic forms, 2:518–521
environmental uncertainty, 1:247
organizational effectiveness, 2:553
organizational structure and design, 2:571, 2:572–573
quantum change, 2:651
Organic solidarity, 1:200
Organic theory, 1:144, 1:147
Organism metaphor, 2:543
Organismic integration process, 2:686
Organization and Environment (Lawrence & Lorsch), 1:145, 1:146, 1:147
Organization schemas, 2:676
Organization theory, 1:383
Organizational and managerial wisdom (OMW), 2:521–524
Organizational archetypes, 2:652
Organizational artifacts, 1:485
Organizational assimilation theory, 2:524–526
Organizational attractiveness, theory of, 2:861–865
Organizational behavior, 2:673
Organizational behavior modification model, 2:657–658
Organizational change, 2:578–579, 2:611
Organizational choice, 1:72
Organizational citizenship behavior (OCB), 1:79, 1:163, 2:528, 2:724
Organizational climate, 2:534
Organizational Commitment Questionnaire, 2:527
Organizational commitment (OC) theory, 2:526–529
attitudinal approach, 2:527
calculative approach, 2:526–527
locus of control, 1:450
multidimensional approach, 2:527
organizational identification versus, 2:557–558
Organizational control, 1:460–461
Organizational creativity, 1:394–398
Organizational culture:
defined, 2:912
interactional model of cultural diversity, 1:392
meaning and functions of, 1:484–487
strategies for change, 2:798
substitutes for leadership, 2:811
typology of, 2:912–914
Organizational culture and effectiveness, 2:529–530
Organizational culture model, 2:530–535
cultural dynamics, 2:532–533
structural elements, 2:531–532
subcultures, 2:533
Organizational culture theory, 2:535–539
applications of cultural research, 2:538–539
clarity, degree of, 2:537
consensus, degree of, 2:537
consistency, degree of, 2:537
culture, complexity of, 2:536
culture, implicit theories of, 2:537–538
culture, manifestations of, 2:536
future directions for research, 2:538
interpretation, depth of, 2:536–537
Organizational demography, 2:539–542
Organizational design. See Organizational structure and design
Organizational development (OD), 2:542–547
action research, 1:15
contextual frameworks, 2:543
defined, 2:542
large group interventions, 1:425–426
practice, 2:543–545
roles, bridging, 1:3
sensitivity training, 2:545
sociotechnical systems, 2:545
survey feedback, 2:545–546
theory, 2:542–543
Organizational ecology, 2:547–553
density-dependent legitimation and theory, 2:548, 2:551
dynamic capabilities, 1:223
niche width and resource-partitioning theory, 2:548–550, 2:551, 2:552
structural inertia, 2:550–551
Organizational economics, 2:561
Organizational effectiveness, 1:68, 1:70, 2:553–556, 2:661
Organizational environment, 2:521, 2:522
Organizational equilibrium, 2:614–615
Organizational excellence, 1:270–271
Organizational expectations, 1:72, 1:73
Organizational fields, 1:381, 1:385, 1:386–387, 1:442–443
Organizational goals, 1:72, 1:73
Organizational identification, 2:556–559
antecedents, 2:558
cognitive dissonance theory, 1:118–119
organizational commitment versus, 2:557–558
organizational identity versus, 2:562
stewardship theory, 2:768
Organizational identity, 2:559–563
Organizational inertia, 1:159, 2:783
Organizational institutionalism, 1:385, 1:386
Organizational jargon, 2:536
Organizational justice theory, 2:764
Organizational knowledge creation, 2:822–823
Organizational learning, 2:563–566
behavioral theory of the firm, 1:72–73, 1:74
core competence, 1:159
lean enterprise, 1:440
learning organization, 1:441–442
Organizational learning curves, 2:564–565
Organizational memory, 1:420
Organizational outcomes, 1:131
Organizational performativity, 2:738–739
Organizational politics, 2:618
Organizational rationality, 2:839–840
Organizational schemas, 2:676
Organizational size, 2:572, 2:573–574
Organizational socialization, 2:566–569
approaches, 2:566–567
individual benefits, 2:569
insiders, role of, 2:567
organizational assimilation theory, 2:524
organizational benefits, 2:568–569
selection as “anticipatory socialization,” 2:568
social identity theory, 2:730
Organizational sociology, 2:561
Organizational stories, 2:536
Organizational Strategy, Structure, and Process (Miles & Snow), 2:796
Organizational stress, 1:411–413
Organizational structure and design, 2:569–574
contingency factors, 2:570–572
defined, 2:569–570
diamond model of national competitive advantage, 1:195–196
dimensions, 2:570
information richness theory, 1:370–371
quantum change, 2:651–652
strategic decision making, 2:776, 2:777
technology and interdependence/uncertainty, 2:841
Organizational support, 1:300, 1:450
Organizationally based self-esteem (OBSE), 2:575–576, 2:870
Organization-man management, 1:475
Organizations: adhocracy, 1:124–125
clan, 1:124
complexity theory and, 1:130–132, 1:291
demand-side, 1:375
dialectical theory of, 1:190–193, 2:613–614
dramaturgical theory of, 1:213–216
effective, 1:294
efficient, 1:294
formal, 1:292
functional, 2:845
generalist, 2:548–550
hierarchy, 1:123–124
high-reliability, 1:341–343, 2:534–535
hybrid identity, 2:562
hybrid line-staff, 2:845
informal, 1:292
learning, 1:13, 1:440–444, 2:753–754
line, 2:845
market, 1:124
M-form, 1:376
modular, 1:495
specialist, 2:548–550
supply-side, 1:375
systems theory of, 2:815–820
virtual, 1:495
See also specific organizations
Organizations in Action (Thompson), 2:838
Organized anarchy, 1:307–308
Organizing, 2:606, 2:718–719
Organizing Modernity (Law), 1:21–22
Orientation: autonomous, 2:688–689, 2:690
causality, 2:686, 2:688–689
controlled, 2:688, 2:690
entrepreneurial, 1:242–245
future, 1:312, 1:313, 2:605–606
general causality, 2:686,
2:688–689
humane, 1:312, 1:313
identity, 2:731
involvement, 2:768
leadership, 1:149
long-term, 1:181–182, 1:184, 2:771
people, 1:474–475, 2:604–605
performance, 1:312, 1:313
product champions, 2:618
resource, 2:578
short-term, 1:181–182, 1:184, 2:771
task, 1:149–150, 1:151, 1:474–475
time, 1:334
Oriented framework, 2:649–650
Osborn, Alex, 1:85–86
Oscillation, 2:615
Other, in equity theory, 1:250, 1:251
Other-concern, 1:140, 1:141, 1:141
(figure), 1:217–218
Oris Elevator, 1:99–100
Ouchi, William, 1:461–462
Outbound logistics, 2:924
Outcomes:
correspondence of, 2:723
equity theory, 1:249
expectancy theory, 1:271, 1:273
organizational, 1:131
social cognitive theory, 2:712, 2:714
social exchange theory, 2:723
strategic alliances, 2:770
Out-licensing, 2:516
Outside-in innovation, 2:515–516
Outside movements, 2:741
Overconfidence, 1:82
Overpayment, 1:249–250, 1:251–252
Oversight, decision making by, 1:308
Oxford Handbook of Positive Organizational Scholarship
(Cameron & Spreitzer), 2:592–593
Pacing, 1:327
Palmer, Donald, 2:663
Paradigms:
defined, 1:37
described, 1:37–38, 1:37 (figure)
functionalist, 1:36, 1:37–38, 1:37
(figure)
interpretive, 1:36, 1:37 (figure), 1:38
minimal group, 2:731
new management, 2:877
philosophy and, 1:36–37
radical humanist, 1:36, 1:37
(figure), 1:38, 1:40
radical structuralist, 1:36, 1:37
(figure), 1:38, 1:40
Paradox model. See Competing values framework
Park, Woo-Woo, 1:330
Parker, Andrew, 2:745
Parsons, Talcott, 1:39, 1:182, 2:673
Partial reinforcement, 2:656
Participative behaviors, 2:581
Participative leadership, 1:313
Participative model of decision making (PMDM), 2:577–580
decision-making styles, 2:578
organizational change, 2:578–579
Partners and partnerships, 1:352, 2:516–517
Partnerships, research and development, 2:516–517
Pascale, Richard, 2:702, 2:703
Passion for Excellence, A (Peters & Austin), 1:269
Passive management by exception, 2:897
Patents, 2:516
Paternalistic intervention, 1:84
Path dependence, 1:138
Path-goal theory of leadership, 2:580–584
relationship with other theories, 2:582
situational theory of leadership, 2:706
“Patterns of Industrial Innovation” (Abernathy & Utterback), 2:585, 2:586–587
Patterns of innovation, 2:585–588
process stages, 2:585
product stages, 2:585–586
productive unit characteristics and innovation, 2:586–587
Patterns of political behavior, 2:588–589
Pavlov, Ivan, 2:657
Pay. See Compensation
Payoffs, 1:298
PCT. See Psychological contract theory
PEM. See Punctuated equilibrium model
Pennings, Johannes, 2:772, 2:773
Penrose, Edith, 1:283–284, 2:667, 2:668
People, in triple bottom line, 2:902–903
People orientation, 1:474–475, 2:604–605
Perceived ease-of-use, 2:830
Perceived organizational support, 1:450
Perceived usefulness, 2:829–830
Perceiving, 2:639–640
Perception, 2:745, 2:886
Perfect information, 1:299
Performance:
business process reengineering and, 1:100
corporate social, 1:162
diversification strategy and, 1:209
exemplary, 2:594
expectancy theory, 1:272
financial, 2:880–881
input-process-output model, 2:932
leader, 2:885–886
management by objectives, 1:460
measuring, 1:209, 2:841
spirit of, 2:596
structure-conduct-performance framework, 2:667
technology and interdependence/uncertainty, 2:841
technology S-curve, 2:847
ty of self-esteem, 2:869
See also High-performance work systems
Performance appraisals, 1:458–459, 1:460
Performance excellence, 1:269–270
Performance feedback, 1:72, 2:656
Performance indices or criteria, 1:298
Performance orientation, 1:312, 1:313
Performance risk, 2:770
Performativity, organizational, 2:738–739
Performing stage, 2:744
Perlmutter, Harold, 2:491, 2:510
Perkins, Wesley, 2:510
Perlmutter, Harold, 1:173, 1:174
Perrow, Charles, 2:836–837
Perry, William, 1:491, 1:492
Person, in equity theory, 1:250, 1:251
Person schemas, 2:676
Personality:
Big Five personality dimensions, 1:76–80, 2:639–640, 2:883
five-factor model of, 1:76–80, 2:639–640, 2:883
interactional model of cultural diversity, 1:391
product champions, 2:616
Type A, 2:910–912
Type B, 2:911
“Personality Structure, Group Composition, and Group Functioning” (Tuckman), 1:319, 1:320
Person-in-organization schemas, 2:676
Person-situation interactionist model.
See Ethical decision making, interactionist model of
“Perspective” (Bonebright), 1:321
PERT. See Gantt chart and PERT
Pessimistic attributions, 1:110
Peteraf, Margaret, 2:789
PFI. See Profiting from innovation
Philanthropic responsibilities, 1:171–172
Philanthropy, strategic, 1:171–172
Phillips, Julien, 2:703
Physical arrangements, 2:536
Physiological needs, 2:503
Piaget, Jean, 1:491
Picture Story Exercise, 1:10
Pierce, J. L., 2:575, 2:576
Pilot-in-the-plane principle, 1:240
Pinch, Trevor, 2:719
Pioneering practices, 2:669
Pisano, Gary, 2:669
Plan-do-check-act cycle, 1:416, 2:648
Planet, in triple bottom line, 2:903
Planned behavior, theory of, 1:231, 2:866
Planned change, 1:287, 1:288, 2:612–613
See also Force field analysis and model of planned change
Planned strategy, 1:487–488
Planning:
formal, 1:451–452
principles of administration and management functions, 2:605–606
quality trilogy, 2:647–648, 2:649
strategic information systems, 2:791
Plato, 1:199
Players, 1:297, 1:298
Pluralism, 1:392
PMDM. See Participative model of decision making
Podsakoff, Philip M., 2:749
Poetic principle, 1:42
Polanyi, Michael, 1:422–423, 2:821, 2:822, 2:823
Political approach, 2:579
Political attitudes, 2:540
Political behavior, patterns of, 2:588–589
Political economy, 1:192
Political stance, lack of, 1:20–21
Politics, 2:618, 2:776–777
Polycentric multinational corporations, 1:173, 1:174
Polychronic time, 1:334
Poole, Marshall Scott, 1:289, 2:611–615, 2:612 (figure)
Poole interdependence, 2:571, 2:839, 2:841
Population ecology, 2:662, 2:827
Porter Airlines, 2:924
POS. See Positive organizational scholarship
Positional roles, 2:671
Position-based advantage, 1:126–127
Positive emotions, 2:593
Positive human resource practices, 2:593
Positive individual attributes, 2:593
Positive leadership and change, 2:593
Positive lens, 2:592, 2:593
Positive organizational practices, 2:593
Positive Organizational Scholarship
(Cameron, Dutton, & Quinn), 2:591–592
Positive organizational scholarship (POS), 1:337–358, 2:591–594
Positive principle, 1:42
Positive psychology, 1:59, 2:592
Positive regard, unconditional, 1:356
Positive reinforcement, 2:655
Positive relationships, 2:593
Positive self-concept, 2:869
Positivist research, 1:2, 1:17
Postconventional level of moral development, 1:260, 1:490, 1:492
Postemotional responses, 2:860–861
Postmodernism, 1:167
Potency, 1:233
Powell, Walter W., 1:381, 1:382
Power:
bureaucratic theory, 1:91–92
charismatic theory of leadership, 1:114–115
circuits of power and control, 1:115–117
coercive, 1:132, 1:133, 2:748
compliance theory, 1:132, 1:133
defined, 2:747
expertise, 1:115, 2:747
information, 2:748
internal, 2:660, 2:661, 2:663
intraorganizational, 2:772–774
leadership position, 1:149, 1:152
legitimate, 2:747–748
market, 1:207–208
normative, 1:132, 1:133
personal, 1:114–115, 2:768
process theories of change, 2:614
referent, 1:114, 1:115, 2:747
remunerative, 1:132, 1:133
reward, 2:748
shareholder, 1:32
social power, bases of, 2:746–750, 2:768
strategic contingencies theory, 2:772–774
technology and interdependence/uncertainty, 2:840, 2:842
use of, 2:768
Power, D. J., 1:186
Power circuits:
dispositional, 1:116
episodic, 1:115–116
facilitative, 1:116
Problem identification, 1:135 (figure), 1:137
Problem solving, 1:140, 1:217, 2:641–642
See also Psychological type and problem-solving styles
Problematic search, 1:72, 1:73, 1:74
Problem-solving intuition, 1:402, 1:403
Problem-solving negotiation. See Principled negotiation
Procedural hypernorms, 1:389
Procedural justice, 1:282, 2:764
Process capability, 2:708
Process improvement initiatives, 1:99
Process models, 2:860–861
Process quality, 2:647
Process research, 1:453
Process school of strategy, 1:488
Process size, 1:100
Process stages, 2:585
Process theories of change, 2:611–616, 2:612 (figure)
Process view of the business, 1:99–100
Processing, balanced, 1:54
Process-related characteristics, 1:378, 2:919
Procurement, 2:925
Product design, 2:754
Product development, 2:620
Product quality, 2:647
Product stages, 2:585–586
Index

Psychological capital, 1:55
Psychological contract theory (PCT), 2:634–639
content and dynamics, 2:635–636
psychological contract beliefs, 2:635–636
psychological contract evaluation, 2:636
rationale underlying, 2:635
Psychological meaningfulness, 2:590–591
Psychological mechanisms, 2:768
Psychological needs, basic, 2:686, 2:687–688
Psychological safety, 2:591
Psychological type and problem-solving styles, 2:639–642
four-stage model of problem solving, 2:641–642
preferences, 2:639–640
problem-solving styles, 2:640
psychological type, 2:640
Psychological work contracts, 2:636–637
Psychology:
evolutionary, 2:685
positive, 1:59, 2:592
social, 2:718–719, 2:817
Public policy officials, 1:197–198
Pull approach, 2:827
Punctuated equilibrium model (PEM), 1:325–328, 2:642–644, 2:652
Punctuation, 2:642
Punishment, 2:656–657, 2:659
Purchase model of helping, 2:609
Pure challenge, 1:107
Pure inquiry, 2:609
Pure strategy, 1:298
Pygmalion effect, 2:691, 2:692–693
Quality, defined, 2:647
Quality circles, 1:377, 2:645–646, 2:882
Quality control. See Quality trilogy
Quality control circles. See Quality circles
Quality improvement. See Quality trilogy
Quality management, 2:648–649
See also Total quality management
Quality planning. See Quality trilogy
Quality trilogy, 2:646–650
quality management, 2:648–649
sustainability management, 2:649–650
Quantum change, 2:650–653
Quasi resolution of conflict, 1:72, 1:74
Question marks, 1:64
Questioning, 1:12
Quinn, Bob, 2:591–592
Quinn, James Brian, 1:451, 1:452, 1:453, 2:616
Radical humanist paradigm, 1:36, 1:37 (figure), 1:38, 1:40
Radical innovations, 1:44
Radical structuralist paradigm, 1:36, 1:37 (figure), 1:38, 1:40
Rahm Organizational Conflict Inventory-II (ROCI-II), 1:142
Raiffa, Howard, 2:601
Randolph, W. Alan, 1:483
Random coefficients analysis, 1:499
Rank equilibrium, 2:724
Ratio schedule, 2:656
Rational decision making, 1:188, 1:401
Rational economic man, 1:81
Rational myths, 1:380
Rational systems theories, 2:817
Rationality:
discovery theory of entrepreneurship, 1:204
high-performing teams, 1:339
limits of, 1:80–82
organizational, 2:839–840
social exchange theory, 2:724
technical, 2:839–840
types, 1:89
See also Bounded rationality and satisficing (behavioral decision-making model)
Raven, Bertram, 2:746, 2:747, 2:748, 2:749, 2:750
RBV. See Resource-based view of the firm
Real Managers (Luthans, Hodgetts, & Rosenkrantz), 1:464
Real options, 2:780, 2:784
Reality, 2:745
Realized strategy, 1:290
Reappraisal, 2:861
Reason, 1:366
Reasoned action, theory of, 2:829, 2:863, 2:865–867
Reasoning, heuristics-based, 1:237–238
Reciprocal interdependence, 2:571, 2:839, 2:841
Reciprocity, 2:723–724, 2:725, 2:726, 2:765
Recognition opportunities, 1:241
Recruitment, diversity, 1:480–481
Recruitment research, 2:862
Reengineering, business process, 1:98–102, 2:681
Referent power, 1:114, 1:115, 2:747
Reflection effect, 2:631
Reflective judgment, 1:266–267
Reflective observation, 1:277, 1:278 (figure)
Reflexivity, 1:22, 2:807
Refreezing stage, 1:288, 1:289, 1:290, 2:544
Regiocentric multinational corporations, 1:173
Regression to the mean, 1:471
Regulation:
emotional, 2:861
external, 2:686–687
identified, 2:687
self-regulation, 2:684, 2:711–712
Regulatory focus theory, 2:860
Regulatory punctuations, 2:643
Reified knowledge, 2:716
Reinforcement theory, 2:655–659
avoidance learning, 2:655–656
extinction, 2:656
positive reinforcement, 2:655
punishment, 2:656–657, 2:659
Reinvention, 1:375–376, 1:377, 2:760
Rejection threshold, 1:362
Related diversification, 1:207, 1:209
Relationalness, 2:687, 2:688, 2:743–744
Relatedness needs, 1:254, 1:255
Relational approach, 1:231–232
Relational concepts, 2:832
Relational psychological contracts, 2:635, 2:636, 2:637
Relational risk, 2:770
Relational self-concept, 2:683
Relational transparency, 1:54
Relational-attribute models, 2:725
Relations and relationships:
affective leader-member, 1:149
causal, 1:63, 2:852
cross-level, 1:497
cross-level mediational, 1:497–498
homologous, 1:497
human, 2:545, 2:554, 2:555
intergroup, 2:732
international, 1:133–134
interpersonal, 1:465, 2:724–725
positive, 2:593
power, 2:660, 2:661, 2:663
social embeddedness of, 1:399
Relationship-context models, 2:725
Relationship-formation models, 2:725
Relationship-oriented leadership, 1:149–150, 1:151, 2:810
Remembering, 2:694–695
Remunerative power, 1:132, 1:133
Renewal process, 2:901
Rensselaer Polytechnic Institute, 1:235
Repeated games, 1:299
Representation-level model, 2:626–627
Representativeness heuristic, 1:82, 1:471
Republic (Plato), 1:199
Research:
action, 1:2, 1:14–18, 1:236, 2:543
clinical inquiry/research, 2:609–610
constructivist, 1:2, 1:17
insider/outsider team, 1:2
Mode 1, 1:2, 1:17
Mode 2, 1:2, 1:17
multilevel, 1:496–499
neuroscience, 1:227–228
operations, 1:187
positivist, 1:2, 1:17
practice-oriented, 1:267
process, 1:453
psychological, 2:775–776
recruitment, 2:862
See also specific topics
Research and development partnerships, 2:516–517
Reservation, legitimate, 2:856
Residual claimants, 1:31
Resilience, 1:55
Resistance to change, 1:290, 2:613, 2:799–800
Resolution, decision making by, 1:308
Resource allocation process, 1:208–209
Resource allocators, 1:464
Resource dependence theory, 2:659–664
behavioral theory of the firm, 1:72
continuous and routinized change, 1:153
interorganizational networks, 1:398–399
organizational effectiveness, 2:554
strategic contingencies theory versus, 2:774
Resource orchestration management, 2:664–666
Resource orientation, 2:578
Resource-based advantage, 1:127, 1:129
Resource-based strategies, 1:214
Resource-based SWOT analysis, 2:815
Resource-based view of the firm (RBV), 2:666–670
core competence, 1:156, 1:159
dynamic capabilities, 1:222
firm growth, 1:284
knowledge-based view of the firm versus, 1:423
Resources:
bundling, 2:664
business policy and corporate strategy, 1:95
financial, 1:100
firm growth and, 1:283–284
leverage, 2:664
strategic alliances, 2:770
structuring, 2:664
Response generation, 1:135 (figure), 1:137
Response uncertainty, 1:246, 1:248
Response validation, 1:135 (figure), 1:137
Responsibility:
corporate social, 1:161–164, 1:358
economic, 1:170
experienced, 1:407, 1:408
legal, 1:170–171
personal, 1:257–258, 1:259
principles of administration and management functions, 2:604
shared, 1:27–28
Rest, James, 1:491
Restrainment, 1:182, 1:184
Restricted approach, 2:579
Results, knowledge of, 1:407, 1:408
Retention, 2:614, 2:694
Reyns, Reginald, 1:11, 1:12, 1:13, 1:455
Revolutionary periods, 2:643
Reward power, 2:748
Reward systems, 2:811
Rewards:
contingent, 2:897
effort-reward imbalance model, 1:412
extrinsic, 2:658
game theory, 1:298
intrinsic, 2:658
self-determination theory, 2:688, 2:689
Rhetoric, 1:214
Rho, S., 2:789
Ricoeur, Paul, 2:501–502
Rights, employee, 1:264
Ridgidity, 1:159, 2:771
Risks and risk taking:
entrepreneurial orientation, 1:243
investment theory of creativity, 1:405
leadership practices, 1:436
organizational learning, 2:563–564
performance risk, 2:770
relational risk, 2:770
strategic alliances, 2:770, 2:771
trust and, 2:905
Risky shift. See Group polarization and the risky shift
Rituals, 1:437, 2:536
Rivalry, 1:196, 2:789
Roberts, Karlene, 1:341
ROCI-II. See Rahm Organizational Conflict Inventory-II
Roethlisberger, Fritz, 1:355
Rogers, Carl, 1:356
Rogers, Everett:
innovation diffusion, 1:373–374, 1:376
institutional theory, 1:380
stages of innovation, 2:759, 2:760
Rokeach, Milton, 1:180, 1:364, 1:365
Role behaviors, 1:67–68
Role conflict, 2:672–673, 2:730
Role schemas, 2:676
Role set, 2:671
Role strain, 2:672
Role theory, 2:670–674
functionalist, 2:673
interactionalist, 2:673, 2:674
leader–member exchange theory, 1:430, 1:431
management roles, 1:463, 1:465
Role-making, 2:672
Role-playing, 2:672
Roles:
bridging, 1:3
decisional, 1:463–464
defined, 2:671
functional, 2:671–672
human resources roles model, 1:349–354
informational, 1:463
interpersonal, 1:463
management, 1:462–467
positional, 2:671
technical, 1:465
See also Human resources roles model
Role-taking, 1:260, 2:671
Rosenberg, Milton J., 1:231
Rosenberg’s Self-Esteem Scale, 2:868
Rosenkrantz, Stuart A., 1:464
Rosenman, Ray H., 2:910, 2:911
Rother, Mike, 1:416
Rotter, Julian B., 1:448–449, 1:450, 2:905
Rousseau, Denise, 2:633, 2:637
Routines, 1:73–74, 1:157, 1:211, 1:416
Routinized change. See Continuous and routinized change
Rubin, Paul, 2:667–668
Rugman, Alan, 1:175
Runkel, Philip J., 1:318
Russ, Travis L., 2:577, 2:578–579
Ryan, Richard M., 2:689
Saab, 2:909
Safety, psychological, 2:591
Safety needs, 2:503
Salaries. See Compensation
Salience, 2:509, 2:737
Salovey, Peter, 1:225, 1:226
Samsung, 2:882
Sanctions, 1:367
Sarasvathy, Saras, 2:787
Sashkin, Marshall, 2:898
Satisfaction:
context, 1:409, 1:410
ERG theory, 1:254–255
goals and, 1:316
job, 1:29, 1:335, 1:450, 2:908
Satisficing. See Bounded rationality and satisficing (behavioral decision-making model)
Saudi Arabia, 1:334
Saunders, Carol, 2:773
Schachter, Daniel, 1:82
Scheduling, drum-buffer-rope, 2:856
Schein, Edgar H.:
career stages and anchors, 1:106–107, 1:108
occupational types, model of, 2:514
organizational culture and effectiveness, 2:529
organizational culture model, 2:530–533, 2:534–535
organizational culture theory, 2:536–537
process consultation, 2:608–609, 2:610, 2:611
Schemas theory, 2:675–677, 2:786
Schendel, Dan, 2:781
Schermuerhorn, John R., 2:875
Schilling, Melissa, 2:849
Schneck, Rodney, 2:772, 2:773
Schneider, Benjamin, 1:47, 1:48
Scholarship, positive organizational, 1:357–358, 2:591–594
Scholarship in management, 1:58–59
Scholarship of application, 1:234
Scholarship of discovery, 1:234
Scholarship of integration, 1:234
Scholarship of teaching, 1:234–235
Schon, Donald, 2:616
Schoorman, F. David, 2:602, 2:905, 2:906
Schreisheim, C. A., 2:749
Schuman, Sandor P., 1:321
Schumpeter, Joseph, 1:204, 1:248, 2:595, 2:827
Schwartz, Shalom, 1:183, 1:364–365
Schwartz Value Survey, 1:365
Schwarzwald, Joseph, 2:749
Science, normal, 2:825
Scientific knowledge, 1:266, 2:825
Scientific management, 2:677–682
differentiation and the division of labor, 1:200
expectancy theory versus, 1:275
hearty cooperation, 2:679–680
humanistic management versus, 1:354–355
incentive systems, 2:679
sociotechnical theory versus, 2:753
technology and complexity, 2:837
training systems, job structures, and organizational hierarchy, 2:678–679
two-factor theory (and job enrichment), 2:907, 2:908
Scott, Susanne, 1:188–189
Scott, W. R., 2:817
Scripts, 1:83, 2:671, 2:676
SDM. See Strategic decision making
SDT. See Self-determination theory
SE. See Strategic entrepreneurship
Search, problemistic, 1:72, 1:73, 1:74
Sebenius, James, 2:603
Secondary stakeholders, 2:763
Security, 1:106
Sedikides, Constantine, 2:736
Seers, Anson, 1:327
Segmental stage, 2:585
Segregation, 1:6, 2:629
Seizing, 1:223
Selection, 2:568, 2:614, 2:916–917
Self, theory of. See Self-concept and the theory of self
Self-actualization, 2:503–504
Self-affirmation, 2:683
Self-appraisal, 2:684–685
Self-as-object, 2:682
Self-as-subject, 2:682
Self-awareness, 1:54, 1:55, 2:684–685
Self-concept and the theory of self, 2:682–686
adaptive nature of the self, 2:683–684
bias and distortions in self-awareness and self-appraisal, 2:684–685
future of self theory and research, 2:685
multidimensional nature of the self, 2:683
self-relevant processes and their organizational implications, 2:684
theory of self-esteem, 2:869
Self-concern, 1:140, 1:141 (figure), 1:217–218
Self-consistency theory, 2:575
Self-construals, 2:682–683
Self-destructive behavior, 2:685
Self-determination theory (SDT), 2:686–690
autonomous motivation, factors affecting, 2:687–688
empowerment, 1:229, 1:232
individual differences, 2:688–689, 2:690
theory of self-esteem, 2:868
Self-esteem:
cognitive resource theory, 1:121
cultural intelligence, 1:177
dominance, 1:229, 1:232
emancipative, 1:272
goal-setting theory, 1:316
self-concept and the theory of self, 2:683
self-fulfilling prophecy, 2:691, 2:692
social cognitive theory, 2:711
theory of self-esteem, 2:868, 2:869
Self-enhancement theories, 2:683
Self-esteem:
contingent, 2:868
defined, 2:867
domain-specific, 2:868
generalized, 2:868, 2:869
global, 2:868, 2:869
organizationally based, 2:575–576, 2:870
self-concept and the theory of self, 2:683, 2:684
state, 2:868
theory of, 2:867–870
true, 2:868
Self-evaluation, 2:684, 2:869
Self-fulfilling prophecy (SFP), 1:356, 2:690–694, 2:738
Selfhood, 2:682, 2:685
Self-in-organization schemas, 2:676
Self-interest, 2:723, 2:725
Self-justification, 1:257–258, 2:613
Self-managed teams, 2:734
Self-monitoring, 2:883–886
Self-motivation, 2:712
Self-presentation, 2:685
Self-protective leadership, 1:313
Self-reflection, 2:684
Self-regulation, 2:684, 2:711–712
Self-schemas, 2:676, 2:682–683
Self-service, 1:100
Self-serving bias, 1:51, 1:52, 1:109, 1:110, 1:472
Self-verification theories, 2:683
Seligman, Martin, 1:337–338, 2:593
Selznick, Philip, 1:154–155, 1:380, 1:381
Senge, Peter, 1:441
Sensemaking, 2:694–698
management symbol and symbolic action, 1:469–470
meaning and functions of organizational culture, 1:486, 1:487
organizational assimilation theory, 2:523
social construction theory, 2:718–719
strategic frames versus, 2:786–787, 2:787–788
Sensing, 1:223, 2:639, 2:640, 2:641
Sensitivity training, 2:545
Seo, M., 1:192
Separation, 1:6, 1:392
Sequential interdependence, 2:571, 2:839, 2:841
Servant leadership, 2:698–702
Seven-S framework, 1:147, 2:702–704
SFP. See Self-fulfilling prophecy
Shane, Scott, 2:618
Shapley, Mark, 2:789
Shared responsibility, 1:27–28
Shared values, 2:702
Shareholder power, 1:32
Shareholder value creation, 1:209
Sharing, 1:1–4, 1:140, 1:208, 2:506–507
Sheard, G., 1:321–322
Shewart, Walter A., 2:879
Shils, Edward, 1:182
Short-term orientation, 1:181–182, 1:184, 2:771
Shotguns, 1:367
“Should” counterfactual, 1:282, 1:283
Shuen, Amy, 2:669
Side bet theory, 2:526–527
Signaling theory, 2:863
Signification, 2:717
SIHRM. See Strategic international human resource management
Sim, Edward, 2:618
Similarity, 2:540–541
Similarity-attraction theory, 1:494
Simon, Herbert A.:
bounded rationality and satisficing, 1:80–81
bureaucratic theory, 1:90
design science, 1:2
intuitive decision making, 1:402
managerial decision biases, 1:470
organic and mechanistic forms, 2:519
programmability of decision making, 2:625–626
technology and interdependence/uncertainty, 2:842
transaction cost theory, 2:888, 2:890
Simulations, computer, 1:131
Simultaneity, 1:42
Single loop learning, 1:210, 1:211, 1:212
SIP. See Social information processing model
Sirmon, David G., 2:664, 2:669
SIS. See Strategic information systems
SIT. See Social identity theory
Situated collective action, 1:216
Situational factors, 2:905
Situational influences, 1:68
Situational mechanisms, 2:768
Situational theory of leadership, 2:704–707
contingency theory of leadership and, 1:151
leadership style theories, relationship with other, 2:705–706
path-goal theory of leadership and, 2:580, 2:582
Situational variables, 1:149
Six Sigma, 2:707–710
impact, 2:709
limitations, 2:709–710
training, education, and implementation, 2:708–709
Size, organizational, 2:572, 2:573–574
Skill acquisition, 1:120
Skill training, 1:480
Skill variety, 1:408
Skills:
closed, 2:873
cognitive, 2:699
differentiation and the division of labor, 1:198–199
dominant-relevant, 1:135
job characteristics theory, 1:409, 1:410
open, 2:873
Seven-S framework, 2:703
social, 2:885–886
Skinner, B. F., 2:655, 2:657
Slack, 1:304, 1:305
Slevin, Dennis, 1:243, 1:244
Sloan, Alfred, 2:597–598
Smidd, Harold, 2:598
Smircich, Laura, 1:484, 2:533
Smith, Adam, 1:89, 1:90, 1:198–199, 1:356, 2:725–726
Smoothing, 1:140
Snow, Charles C., 2:796
Snyderman, Barbara Bloch, 2:796
Social actor perspective, 2:560–561
Social categorization theory, 1:494
Social change, 2:720
Social cognitive learning theory, 2:866
Social cognitive theory, 2:710–715
agency, mechanisms of, 2:711–712
fortuity, agentic management of, 2:714–715
moral agency, exercise of, 2:714
self-development and change, modes of, 2:713–714
Social comparison, 2:684
Social conformity theory, 1:399
Social construction of competition, 2:719
Social Construction of Reality, The (Berger & Luckmann), 2:717
Social Construction of Technological Systems, The (Bijker, Hughes, & Pinch), 2:719
Social construction theory, 2:715–719
dialectical theory of organizations, 1:190
organizational identity, 2:560, 2:561
social information processing model, 2:738–739
Social control mechanism, 1:486
Social embeddedness of relationships, 1:399
Social entrepreneurship, 2:719–722, 2:787
Social environment, 1:136
Social exchange theory, 2:722–727
empowerment, 1:231–232
interdependent interactions, 2:723
interorganizational networks, 1:398–399
interpersonal relationships, 2:724–725
leader-member exchange theory, 1:430, 1:431
reciprocity and other rules of exchange, 2:723–724, 2:725, 2:726
self-interest, 2:723, 2:725
Social facilitation management, 2:727–729
Social forces, 2:734
Social groups, 2:729
Social identity theory (SIT), 2:729–733
consequences, 2:730
focus, 2:729–730
group dynamics, 2:730
management and, 2:730–731
model, 2:729–730
organizational assimilation theory, 2:525
organizational identification, 2:557, 2:558, 2:559
theory of organizational attractiveness, 2:863
Social impact theory and social loafing, 2:733–736
Drucker, Peter, 2:595–596
dynamic social impact theory, 2:735
social facilitation management, 2:727–728
social loafing, 2:734–735
Social information processing (SIP) model, 2:736–740
Social intelligence. See Emotional and social intelligence
Social interdependence theory, 2:857–858
Social knowledge, 2:715–716
Social learning theory, 1:448, 1:450
Social loafing. See Social impact theory and social loafing
Social media, 1:294
Social movements, 2:740–742
Social needs, 2:720
Social network theory, 2:742–746
social networking technology, 2:832
Social norms approach, 2:510
Social order, 1:486
Social performance, corporate, 1:162
Social power, bases of, 2:746–750, 2:768
Social proof, 2:738
Social psychology, 2:718–719, 2:817
Social Psychology of Organization, The (Weick), 2:695
Social reinforcement, 2:656, 2:658
Social responsibilities of business. See Corporate social responsibility
Social skills, 2:885–886
Socialization:
anticipatory, 2:568
individualized, 2:567
institutionalized, 2:567
military, 2:566–567
organizational, 2:524, 2:566–569, 2:730
Socially distributed knowledge, 2:716
Social-unit attributions of emotion, 1:26–27, 1:28
Societal-level demographic effects, 2:540
Sociological approach, 2:870–871, 2:872
Sociological Paradigms and Organizational Analysis (Burrell & Morgan), 1:36–37, 1:39–40
Sociology, organizational, 2:561
Sociology of knowledge, 2:716–717
Sociology of translation. See Actor-network theory
Sociotechnical systems, 2:545
Sociotechnical theory, 2:750–755
Soft decisions, 1:452
Soft issues, 2:913
Soft systems methodology, 2:837
Soft variables, 2:702, 2:703, 2:704
Soldiering, 2:678, 2:679, 2:680
Solidarity, 1:200
“Some Social and Psychological Consequences of the Longwall Method of Coal-Getting” (Trist & Bamforth), 2:752–753
Southwest Airlines, 1:371
Spangler, William, 1:10
Specialist organizations, 2:548–550
Specific training, 1:343–344
Specification, minimum crucial, 1:352
Spinoffs, 2:516
Spirit, 1:23, 1:24
Spirit of performance, 2:596
Spokespersons, 1:463
Sponsors, 2:760
Spontaneous decision-making style, 1:188–189
Spreitzer, Gretchen M., 1:230, 2:592–593
Stability:
  - attribution model of leadership, 1:51
  - career anchors, 1:106
  - causal attribution theory, 1:109
  - emotional, 1:76–77, 2:640, 2:869
  - lean enterprise, 1:440
  - technology and interdependence/uncertainty, 2:841
  - temporal, 1:77
Stabilization phase, 2:525
Stabilizing practices, 2:669
Staff, 2:703, 2:798–799
Staffing, 1:446
Stage gate processes, 2:761
Stages, career. See Career stages and anchors
Stages of creativity, 2:755–758
  - incubation and illumination, 2:757
  - manipulation, 2:756–757
  - motivation, 2:756, 2:757
  - preparation, 2:757
  - verification, 2:757–758
Stages of innovation, 2:758–762
  - future research, directions for, 2:762
  - idea creation or invention stage, 2:759
  - innovation development stage, 2:759–760
  - innovation implementation (adoption) stage, 2:760–761
“Stages of Small-Group Development Revisited” (Tuckman & Jensen), 1:320
Stahl, Frederick Julius, 2:596
Stajkovic, Alex, 2:657–658, 2:659
Stakeholder approach, 1:263
Stakeholder considerations in ethical decision making, 1:267
Stakeholder theory, 2:763–767
  - business policy and corporate strategy, 1:96
  - managerialism, 1:478
  - stakeholder treatment and business ethics, 2:764
  - stakeholders, defining, 2:763–764
  - value created by an organization, 2:764–765
  - Stakeholder treatment, 2:764
  - Stakeholder value propositions, 1:439
Stakeholders:
  - behavioral perspective of human resource management, 1:69
  - customers as, 2:795
  - defining, 2:763–764
  - humanistic management, 1:354, 1:356
  - organizational effectiveness, 2:553–554
  - secondary, 2:763
  - strategic international human resource management, 2:794–795
Stalker, G. M.:
  - contingency theory, 1:144, 1:147
  - organic and mechanistic forms, 2:518, 2:519, 2:520
  - organizational structure and design, 2:572–573
  - quantum change, 2:651
Stars, 1:64
Start, early/late, 1:304, 1:305
Start phase, 1:428
Start-up stage, 2:665
Start-ups, entrepreneurial, 2:828
Stasis, 2:642, 2:644
State, role of the, 1:263–264
State self-esteem, 2:868
State uncertainty, 1:246, 1:248
Statistical groups, 1:84
Status consistency, 2:724
Staw, Barry, 1:376–377, 2:850
Steering groups, 2:646
Stereotypes, 2:676
Stereotyping, 1:391
Sternberg, Robert J., 1:404, 1:405–406
Stern, Jonathan, 2:837–838
Stewardship theory, 2:767–769
  - domain and application, 2:768
  - psychological mechanisms, 2:768
  - situational mechanisms, 2:768
Stewart, Rosemary, 1:464, 1:465
Stewart, Tom, 1:101
Stimuli, 2:860, 2:861
Stock variables, 2:816
Stoddard, Donna, 1:100, 1:101
Stoner, James A. F., 1:323, 1:324
Stories, organizational, 2:536
Storming stage, 1:301, 1:319, 1:321
Storytelling, 2:501–503
Strang, David, 1:375
Strategic alliances, 2:769–772
  - control, 2:771
core competence and, 1:159–160
  - internal tensions, 2:771
resources, 2:770
risks, 2:770
trust, 2:770–771
Strategic business units, 1:64
Strategic contingencies theory, 2:772–775
critique, 2:773–774
practical application, 2:774
resource dependence theory versus, 2:774
Strategic decision making (SDM), 2:775–778
  - factors influencing, 2:776–777
group level, 2:777
  - individual biases, role of, 2:776
  - individual level, 2:777
  - information aggregation process, role of, 2:776
  - nature of, 2:775–776
  - organizational demography, 2:541
  - organizational structure, 2:776, 2:777
  - politics, role of, 2:776–777
Strategic entrepreneurship (SE), 2:778–782
Strategic Entrepreneurship Journal, 2:778, 2:781
Strategic flexibility, 2:782–785
  - commitment and organizational inertia, 2:783
  - contextual approach, 2:784–785
diversification strategy, 1:208
  - strategic approach, 2:784
  - structural approach, 2:784
top management approach, 2:785
Strategic frames, 2:785–788
Strategic group identity, 2:789
Strategic groups, 2:788–790
Strategic human resource management, 1:345
Strategic image, 1:362
Strategic information systems (SIS), 2:790–792
Strategic information systems planning, 2:791
Strategic interactions, 2:789
Strategic international human resource management (SIHRM), 2:792–795, 2:793 (figure)
endogenous factor, 2:794
exogenous factor, 2:794
multinational enterprise effectiveness, 2:794–795
policies, practices, and issues, 2:794
strategic multinational enterprise factor, 2:792–793
Strategic management, 1:243–244, 1:284, 2:667
Strategic Management (Freeman), 2:765
Strategic partners, 1:352
Strategic philanthropy, 1:171–172
Strategic profiles, 2:795–797
Strategic quality management, 2:881
Strategies:
  acculturation, 1:6, 1:7 (figure)
dramaturgical theory of organizations, 1:214
growth, 2:620
human resource management, 1:346–349
influence, 1:366–367
presentational, 1:214
resource-based, 1:214
Strategies for change, 2:797–800
Beer model, 2:798–799
Kotter model, 2:797–798, 2:799
nudge model, 2:799
Strategy:
bureaucratic, 1:347–348
business, 1:206
corporate, 1:94–98, 1:206
defined, 2:801
design school of, 1:487–488
dependent, 1:290, 1:487, 1:488
engineering, 1:346–347
exploitation, 1:347–348
exploitation, 1:346–347
firm, 1:195–196
innovation speed, 1:378
intended, 1:290
mixed, 1:297–298
modes of, 1:487–489
organizational and managerial wisdom, 2:521, 2:522, 2:523
organizational structure and design, 2:571–572, 2:573
planned, 1:487–488
process school of, 1:488
pure, 1:298
realized, 1:290
Seven-S framework, 2:702
strategies for change, 2:798
value-enhancing, 1:207–208
See also Business policy and corporate strategy
Strategy and structure, 2:800–803
Strategy maps, 1:62
Strategy process tradition, 2:805
Strategy-as-practice, 2:803–806
assumptions, core, 2:804–805
challenges, 2:805–806
implications, 2:806
methods, 2:805
strategy process tradition versus, 2:805
Strengths, 2:592, 2:593, 2:812–815
Stress, organizational, 1:411–413
Strodbeck, Fred, 1:180, 1:182
Strong cultures, 1:485–486, 2:913
Strong scripts, 2:676
Strong theory, 2:850, 2:852
Structural ambidexterity, 2:784
Structural approach, 1:231–232, 2:784
Structural balance, 1:399–400
Structural contingency theory, 2:661
Structural features, 1:23–24
Structural hole, 1:399, 1:400, 2:743–744, 2:745
Structural hypernorms, 1:389
Structural inertia, 2:550–551, 2:783
Structural integration, 1:392
Structural isomorphism, 2:507
Structural mechanisms, 2:593
Structural theory of attitudes, 1:231
Structuralism, radical, 1:36, 1:37
(figure), 1:38, 1:40
Structuration theory, 1:22–25, 1:190, 2:806–809
Structure:
  adaptive structuration theory, 1:23
depth, 2:642, 2:643
defined, 2:839
dissipative, 2:836
formal, 2:506
information, 1:299
initiating, 2:582
job, 2:678
matrix, 1:482–484
multidivisional, 1:376
Seven-S framework, 2:702
social network theory, 2:745
strategy and, 2:800–803
task, 1:149, 1:401–402, 1:403
See also Organizational structure and design
“Structure Is Not Organization”
(Waterman, Peters, & Phillips), 2:703
Structure of decision making. See Programmability of decision making
Structure-conduct-performance framework, 2:667
Structuring resources, 2:664
Stuart, Harbourne, 1:127
Subcultures, 2:533
Subjective norms, 2:865, 2:866
Subordinates, 2:699
Subordination of private interests, 2:605
Subsidiary knowledge, 2:822
Substantive hypernorms, 1:389
Substitutability, 2:858
Substitutes for leadership, 2:809–812
categories and functions, 2:810–811
factors and characteristics, 2:810
path-goal theory of leadership, 2:584
practical application, 2:812
theoretical relevance and empirical support, 2:811–812
Subsystems, 1:452
Subunit centrality, 2:772
Success/survivor bias, 1:285
Sullivan, Sherry, 1:106, 1:108, 2:633
Sunk cost fallacy, 1:82
Sunk costs, 1:258, 1:259
Sunstein, Cass, 1:80, 2:799
Superordinate goals, 2:702
Supply capabilities, 2:623–624
Supply chains, 1:495
Supply-side organization, 1:375
Support:
  organizational, 1:300, 1:450
  strategic flexibility, 2:784–785
Support activities, 2:925
Supporting style, 2:704, 2:705
Supportive behaviors, 2:581
Suppression, 2:861
Surgeons, 2:811
Survey feedback, 2:545–546
Sustainability, 2:594, 2:903
Sustainability management, 2:649–650
Sutcliffe, Kathleen, 1:342
Sutton, Robert, 2:850
Switzerland, 1:334
SWOT analysis framework, 2:667, 2:812–815
Symbolic interactionist perspective, 2:868
Symbolic perspective, 1:485
Symbolism, 2:672
See also Management symbolism and symbolic action
Synergy, motivational, 1:137, 1:138
Synthesis, clinical, 1:84
System dynamics, 2:818
System integration, 2:624–625
Systematic soldiering, 2:678, 2:680
Systemic stage, 2:585
Systems:
  adaptive structuration theory, 1:23
  closed, 1:202
  complex adaptive, 2:836
  control, 2:816–817
  cooperative, 1:292
  differentiation and the division of labor, 1:202
  dynamical, 2:819
  expert, 1:187
  hierarchy of, 2:817–818
  human resource, 1:393
  incentive, 2:632, 2:679
  management control, 1:460–462
  market control, 1:461–462
  open, 1:202
  reward, 2:811
  Seven-S framework, 2:702–703
  sociotechnical, 2:545
  training, 2:678–679
  transaction processing, 2:790
See also Decision support systems
Systems perspective, 1:336
Systems theory of organizations, 2:815–820
Systems thinking, 1:150
Systems-based orienter framework, 2:649–650
Tacit knowledge, 2:821–824
  core competence, 1:137, 1:159–160
  focal knowledge versus, 2:821, 2:822
  knowledge workers, 1:418
  knowledge-based view of the firm, 1:422–423
  practices and, 2:823
  research challenges, 2:823–824
  tacit/explicit dichotomy, 2:822–823
TACT. See Technology affordances and constraints theory (of MIS)
Tacticians, 1:367
Takeovers, corporate, 1:32
Takeuchi, Hirotaka, 2:822–823
Talent management, 1:337, 1:345, 2:794
Tall models, 2:853
TAM. See Technology acceptance model
Task complexity, 1:300
Task difficulty attributions, 1:51, 1:52
Task enhancement, 1:252
Task environment, 2:839
Task identification, 1:135 (figure), 1:137
Task identity, 1:408
Task orientation, 1:149–150, 1:151, 1:474–475
Task significance, 1:408
Task structure, 1:149, 1:401–402, 1:403
Task type, 2:727, 2:728
Task uncertainty, 2:570
Task-oriented leadership, 2:810
Tasks, joint, 1:27–28
Tavistock Institute, 2:545
Taylor, Frederick W.:
  differentiation and the division of labor, 1:200, 1:201
  humanistic management, 1:354–355
  principles of administration and management functions, 2:608
scientific management, 1:275, 2:677–681
sociotechnical theory, 2:753
two-factor theory (and job enrichment), 2:907, 2:908
Taylorism. See Scientific management
TDs. See Technological discontinuities
Teaching, scholarship of, 1:234–235
Teagarden, Mary, 1:175
Team autonomy, 1:233
Team building, 2:545
Team learning, 1:12
Team management, 1:475, 1:476
Team projects, 1:12
Team spirit, 2:605
Team-based decision making, 2:785
Team-oriented leadership, 1:313
Teams and teamwork:
  air traffic control, 2:810
  Big Five personality dimensions, 1:79
  diversity challenges, 2:928
  dramaturgical theory of organizations, 1:215
  expectancy theory, 1:275–276
  high-performing, 1:338–341
  innovation speed, 1:378
  multicultural work teams, 1:493–495
  organic and mechanistic forms, 2:520
  organizational and managerial wisdom, 2:522
  quality circles, 2:646
  self-managed teams, 2:754
  social facilitation management, 2:728
  substitutes for leadership, 2:810
  team types, 2:932
  top management team, 2:918–919
  virtual, 2:927–929
  work team effectiveness, 2:931–934
Technical innovations, 1:218, 1:219, 1:220–221
Technical interest, 1:166
Technical rationality, 2:839–840
Technical role, 1:465
Technical/functional competence, 1:106
Technocracy, 1:166
Technological discontinuities (TDs), 2:824–829, 2:848
Technological uncertainty, 1:246
Technology:
appropriateness of, 2:894
defined, 2:825, 2:835, 2:847
information, 1:99–100
information and communication,
1:22–25
intensive, 2:839
long-linked, 2:839, 2:840
mediating, 2:839, 2:840–841
social construction of, 2:719
social networking, 2:832
substitutes for leadership,
2:810–811
value chain, 2:925
virtual teams, 2:928
See also Transfer of technology
Technology acceptance model
(TAM), 2:829–831
Technology adoption S-curve, 2:846,
2:847
Technology affordances and
constraints theory (of MIS)
(TACT), 2:832–835
Technology and complexity,
2:835–838
Technology and Interdependence/ Uncertainty, 2:838–843
Technology and programmability,
2:843–846
Technology S-curve, 2:826,
2:846–849, 2:893
Technology transfer barriers,
2:894–895
Teece, David, 2:669
Telecommuters, 2:754
Teleological view of ethics, 2:600
Teleology, 1:287, 1:288, 2:612–613
Telephone communication, 1:370
Teleworkers, 2:754
Temperament, executive, 1:120
Temporal interactions, 1:299
Temporal stability, 1:77
Tennessee Valley Authority (TVA),
1:154–155, 1:380
Tensions, internal, 2:771
Terminal values, 1:365
Termination stage, 1:301
Terrorism prediction markets, 1:84
Texting ability of cell phones, 2:754
T-groups, 2:545
Thaler, Richard, 2:799
Thematic Apperception Test, 1:10
Theme-based framework, 2:649
Theory:
defined, 2:607, 2:850
level of, 1:498
types, 2:850–851
See also specific theories
Theory development, 2:849–855
middle-range theory development,
2:851–852
type, defined, 2:850
type types, 2:850–851
Theory in use, 1:210
Theory of constraints (TOC),
2:855–857
Theory of cooperation and
competition, 2:857–859
application, 2:859
interaction patterns, 2:858
outcomes, 2:858–859
Theory of emotions, 2:859–861
Theory of Games and Economic Behavior (von Neumann & Morgenstern), 1:302
Theory of organizational
attractiveness, 2:861–865
Theory of planned behavior, 1:231,
2:866
Theory of reasoned action (TRA),
2:829, 2:863, 2:865–867
Theory of self-esteem, 2:867–870
(Drucker), 2:595
Theory of the Growth of the Firm, A
(Penrose), 1:283–284
Theory of the interesting, 2:870–872
psychological approach, 2:871–872
sociological approach, 2:870–871,
2:872
Theory of transfer of training,
2:872–874
Theory x and theory y, 1:356,
2:874–878
Thibaut, John, 2:723
Thinking:
ambidextrous, 1:484
holistic, 1:439
logical processes, 2:856
psychological type and problem-solving styles, 2:639, 2:640,
2:641
systems, 1:150
Thomas, K. W., 1:232
Thomas-Kilmann Conflict Mode Instrument, 1:142
Thompson, James:
contingency theory, 1:145
programmability of decision making, 2:626
resource dependence theory, 2:661
technology and interdependence/
uncertainty, 2:838–841,
2:842, 2:843
Thorndike, Edward, 2:657
Threats, 2:812–815
Throughput, 2:855
Tie strength, 2:744
Time of day, 2:715, 2:716
Time orientation, 1:334
Tishman, Michael, 2:825–826
TOC. See Theory of constraints
Todd, Samuel, 2:670
Tolbert, Pamela, 1:376
Toolkits, 2:516
Top management team, 2:918–919
Top management team theory. See Upper-echelons theory
TOT. See Transfer of technology
Total Quality Management
(Oakland), 2:878
Total quality management (TQM),
2:878–882
criticism of, 2:881
defined, 2:878
implementation, 2:881–882
innovation diffusion, 1:375
scientific management, 2:681
Six Sigma, 2:709, 2:710
two-factor theory (and job enrichment), 2:909
work team effectiveness,
2:931–932
Totality, 1:191
Toyota, 1:438, 1:439
Toyota production system, 1:269,
1:415–416
TQM. See Total quality management
TRA. See Theory of reasoned action
Trainee characteristics,
2:881
Training:
awareness, 1:480
creativity, 1:405
design of, 2:873
diversity, 1:480, 1:481
general, 1:343–344
human capital theory, 1:343–344
investment theory of creativity,
1:405
on-the-job, 1:344
sensitivity, 2:545
skill, 1:480
specific, 1:343–344
substitutes for leadership, 2:811
theory of transfer of, 2:872–874
Training systems, 2:678–679
Trait theory of leadership,
2:882–888
intelligence, 2:884
personality, 2:883
substitutes for leadership,
2:809–810
Trajectory image, 1:362
Transaction cost theory, 1:58,
2:888–892
Transaction inseparability, 2:891
Transaction processing systems,
2:790
Transcational influence processes,
1:114
Transcational leadership, 1:151,
2:896–897
Transcational psychological
contracts, 2:635, 2:637
Transactive memory, 1:420
Transfer mechanisms, 2:893
Transfer of technology (TOT),
2:893–896
Transfer of training, theory of,
2:872–874
Transformational approach, 1:232
Transformational influence processes,
1:114
Transformational theory of
leadership, 1:220, 1:274,
2:896–899
Transforming, 1:223
Transitional pattern, 2:586–587
Transitivity, 1:399
Translation, 1:19, 1:20, 1:22
Transnational firms, 1:175, 2:900
Transnational management,
2:899–902
Transparency, relational, 1:54
Trevis, Linda, 1:259–260,
1:260–261
Triadic reciprocal causation, 2:711
Triandis, Harry, 1:182–183
Trigger events, 1:55
Triple bottom line, 2:902–904
Trist, Eric, 2:545, 2:752–753
Troubleshooters, 1:464
True affective states, 1:29
True self-esteem, 2:868
Trust, 2:904–907
calculus-based, 2:725
charismatic theory of leadership,
1:114
competence, 2:770–771
defined, 2:905, 2:906
goodwill, 2:770
identity-based, 2:725
intergroup, 2:906
interorganizational, 2:906
interpersonal, 2:906
knowledge-based, 2:725
principled negotiation, 2:602
propensity to, 2:905
social exchange theory, 2:725
strategic alliances, 2:770–771
strategic flexibility, 2:784–785
Trustee factors, 2:905
Trustor factors, 2:905
Trustworthiness, 2:905
Tuckman, Bruce W., 1:319–321
Tuden, A., 2:626
Turban, Daniel, 2:863
Turbulence, environmental, 1:246
Turner, John, 2:556–557, 2:729,
2:730, 2:731
Turner, Ralph, 2:673
Turnover, employee, 1:344,
1:363–364, 1:450
Tushman, Michael, 2:825–826,
2:827
TVA. See Tennessee Valley Authority
TVA and the Grass Roots (Selznick),
1:154–155
Tversky, Amos, 1:82, 1:402, 1:471,
2:628, 2:629–631
Two-factor theory (and job
enrichment), 1:357, 2:907–910
Type A personality theory,
2:910–912
Type B personality, 2:911
Type dynamics, 2:640
Typology of organizational culture,
2:912–914
Ulrich, Dave, 1:350
Uncertainty:
in decision making, 2:626
defined, 2:839
discovery theory of
entrepreneurship, 1:205
effect, 1:246
environmental, 1:245–249, 2:520,
2:573
market, 1:246
organizational structure and
design, 2:570
response, 1:246, 1:248
state, 1:246, 1:248
strategic contingencies theory,
2:772
task, 2:570
technological, 1:246
technology and, 1:246, 2:838–843
See also Uncertainty avoidance
Uncertainty avoidance:
behavioral theory of the firm, 1:72
cultural values, 1:181, 1:184
GLOBE model, 1:312, 1:313
product champions, 2:618
Uncertainty reduction theory, 2:525
Unconditional positive regard, 1:356
Uncoordinated stage, 2:585
Underpayment, 1:249–250, 1:252
Unethical behavior, 1:119
Unfolding model of voluntary
employee turnover, 1:363–364
Unfreezing stage, 1:288, 1:289,
1:290, 2:543–544
Unilateral contract-based alliances,
2:769
Union of Japanese Scientists and
Engineers, 2:879
United Nations, 1:162, 1:163
Unity of command, 2:604–605
Unity of direction, 2:605
Universal leadership theory, 1:474,
1:476–477
Universities, 2:506–507, 2:661
Unprincipled negotiation,
2:599–600, 2:601, 2:603
Unrelated diversification, 1:207,
1:209
“Unstructured” decision making,
2:915–918
Upper-echelons theory, 2:540, 2:541,
2:918–921
Urgency, 2:797
Urwick, Lyndall, 1:201
Ury, William, 2:599, 2:601, 2:602,
2:603
U.S. Army, 2:566–567
U.S. Congress, 2:677, 2:679, 2:680
Use value, 2:825, 2:826
Useful theory, 2:850–851, 2:852,
2:854
Usefulness, perceived, 2:829–830
Users, lead, 1:427–429
Utilitarianism, 2600
Utility measures, 1298
Utterback, James M., 2585

Valence, 1273, 1274
Value:
capturing, 2825, 2827, 2891
firm, 2778–779
infusion of, 1380
use, 2825, 2826
See also Value creation
Value chain, 2923–927
applicability, 2926
primary activities, 2924
support activities, 2925
as theory of the firm and tool of
competitive strategy, 2927
Value commitment, 2527
Value creation:
for community, 2699
shareholder, 1209
social entrepreneurship, 2719–720
stakeholder theory, 2764–765
technological discontinuities,
2825, 2826–827
transaction cost theory, 2891
Value function, 2629–630, 2630
(figure), 2631
Value image, 1362
Value shops, 2926
Value-based leadership, 1312–313,
2583
Value-enhancing strategy, 1207–208
Value-price-cost bargaining
framework, 1127
Value-rarity-imitability-organization
framework, 2669
Values:
action research, 115
attitudes versus, 1364
connecting work to, 1274–275
cultural intelligence, 1777–178
defined, 1180, 1364–365
espoused, 1485, 2535–536
expectancy theory, 1274–275
facts versus, 2626
individual, 1364–366
instrumental, 1365
leadership practices, 1435
organizational culture model,
2531–532
shared, 2702
terminal, 1365
types and frameworks, 1365
See also Competing values
framework; Cultural values
Van de Ven, Andrew:
engaged scholarship model, 123
1235, 1236
planned change, 1289
process theories of change,
2611–615, 2612 (figure)
stages of innovation, 2759, 2761
van Emmerik, Hetty, 19–10
Variable interval schedule, 2656
Variable ratio schedule, 2656
Variables:
dynamic, 2816
hard, 2702, 2703, 2704
level, 2816
situational, 1149
soft, 2702, 2703, 2704
stock, 2816
Variations, 2614, 2708
Variety, 2909
Velthouse, B. A., 1232
Venkatsh, Viswanath, 2830, 2831
Venturing, corporate, 2516
Verification, 2757–758
Vertical differentiation, 1198, 2570
Vertical fit, 1336
Vertical integration, 2571–572,
2624, 2888–889, 2890, 2892
Vertical technology transfer, 2894
Victim locus, 2714
Violation, feelings of, 2636
Virtual organizations, 1495
Virtual teams, 2927–929
Virtue ethics, 2600
Virtues, 2592, 2593
Vision:
business policy and corporate
strategy, 195
charismatic theory of leadership,
1112, 1113, 1114
gloomy, 157
shared, 1436
strategies for change, 2798
Visionary leadership theory, 2898
Vocational codes, 2513–214
Voluntarism, 2764–765
Volvo, 2909
von Hippel, Eric, 1427
von Neumann, John, 1302
Vroom, Victor Harold:
contingency theory, 1145, 1146
decision-making styles, 1189
expectancy theory, 272–273
humanistic management, 1357
participative model of decision
making, 2577
path-goal theory of leadership,
2581
two-factor theory (and job
enrichment), 2908
Wages. See Compensation
Wallas, Graham, 2756
Walton, Richard, 2601–602
Wason selection task, 1472
Waterman, Robert, 1268, 1270,
2702, 2703–704
Watson, Tony J., 1466
Weak cultures, 2913
Weak scripts, 2676
Weak theory, 2854
Weaknesses, 2812–815
Wealth-driven competitiveness, 1197
Web, 1214
Weber, Max:
bureaucratic theory, 1388, 1389,
140, 191
charisma, defined, 1111–112
competing values framework,
1123–124
differentiation and the division of
labor, 1201
management roles, 1465
organizational effectiveness, 2553
Weick, Karl:
equity theory, 1252
high-reliability organizations,
1341, 1342
sensemaking, 2694, 2695–696,
2697
social construction theory, 2718,
2719
strategic frames, 2786–787
Weighting phase, 2630
Weiner, Bernard, 1109, 1111
Weingart, Laurie, 217–218
Weisbord, Marvin, 2543
Welch, Jack, 2708
Wernerfelt, Birger, 1284, 2668
Whetten, David, 2559, 2560, 2561
Whistle-blowing, 2589
Whitney, Diana, 141–42
WICS model. See Wisdom,
intelligence, and creativity
synthesized model
Wildcats, 164
Williams, Karen B., 2736
Williams, Kipling D., 2:735, 2:736
Williams, Robin, 1:365
Williamson, Oliver:
  resource dependence theory, 2:663
  scientific management, 2:678, 2:679, 2:680, 2:681
  transaction cost theory, 2:888, 2:889, 2:890–891
Willpower, bounded, 1:472
Windsor, Carol Ann, 1:261
Wins, short-term, 2:798
Winter, Sidney G., 2:627–628
Wisdom, intelligence, and creativity synthesized (WICS) model, 2:884
Wisdom, organizational and managerial, 2:521–524
Withdrawing, 1:140
Wolf, Sharon, 2:736
Women:
  language, 1:310
  organizational demography, 2:539
  Woodruff, Steve, 1:327
  Work:
    fragmentation of, 1:420
    institutional, 1:382
  Work and Motivation (Vroom), 1:272
  Work environment factors, 2:873
  Work team effectiveness, 2:931–934
    See also Multicultural work teams;
    Teams and teamwork
  Workplace design, 2:728
  World Café, 1:425, 1:426
  World Values Survey, 1:182, 1:183
  World War II, 2:879
  Worrying, 2:640
  “Would” counterfactual, 1:281, 1:283
  Writers, 1:464
  Written communication, 1:370, 1:372
  Wrzesniewski, Amy, 1:275
  Wu, Jianguo, 2:649
  Wu, Tong, 2:649
  Wurtzel, Alan, 1:446
  Yetton, Philip, 1:146, 2:577
  Yielding, 1:140, 1:217
  Yoon, Jeongkoo, 2:724
  Youngblood, Stuart A., 1:261
  Yunus, Muhammad, 2:722
  Zajac, Edward, 2:774
  Zbaracki, Mark, 1:375
  Zimpher, Nancy, 1:436
  Zone of acceptance, 1:293
  Zone of indifference, 1:293–294
  Zucker, Lynn, 1:376, 2:507