

Contents

Foreword by Gordon Smith	xiii
Preface	xv
PART ONE: INTELLECTUAL CAPITAL MANAGEMENT	1
CHAPTER 1—INTELLECTUAL CAPITAL MANAGEMENT AND THE KNOWLEDGE ECONOMY	3
Introduction	3
Intellectual Capital and Business Value—The Hidden Resource	5
The Knowledge Economy—The Main Culprit	7
Business Processes and the Fast Lane of Innovation—Join It or Pull Off the Highway	7
Employees—The Knowledge Processors	9
The Knowledge-Thirsty Customers	10
Does a New Economy Require a New Business Management Approach?	10
IC-Enabled Dynamics and Transformation of Business Management:	
The Management of Minds	11
IC-Enabled Dynamics and Transformation of Organizational Design	14
The Democratic Organization—Fewer Layers and More Ambassadors	14
IC-Enabled Dynamics and Transformation of Business Growth Strategies	15
Diversify into the Business of Service: The High-Growth Sector	15
Growth through Mergers, Acquisitions, and Strategic Alliances:	
To Merge or Not to Merge	17
Growth and the Start-Up Business Model: The Idea Incubators	19
The Required Competencies in the Knowledge Economy:	
Toward Strategic Intellectual Capital Management	20
Knowledge Management—Increasing Your Organizational IQ	22
Innovation Management—Systematize Your Collective Thinking	22
Intellectual Property Management—Protect or Lose	24
Organizational Culture—The Main Enabler	24
Comprehensive Management of Intellectual Capital—Orchestrate Your Music	25
CHAPTER 2—THE INTELLECTUAL CAPITAL MODEL	31
What’s In a Name?—Defining the Terms	31
Frames of Reference—The IC Model and the Three Circles	33
Value Creation—The Coming of the Pyramids	34
Skandia’s Navigator and the Human Focus	35
The Core Competency Principle and Value Creation	36
The IC Model, Core Competencies Model, and Management	37
Learning from IBM, 3M, Xerox, Apple, Lucent, and Intel	38
Recognition—The First Step in Managing IC	38
Measuring Intellectual Capital	38
IC Measurement Systems—What They Have in Common	40

IC Measurement Models—An Overview	41
The Balanced Scorecard	41
The Intangible Asset Monitor—IC Measurement Is Not a Science but a Language	45
The Navigator—Do Not Plan, Navigate	48
The Value of IC Measurement Systems: Where Does All This Leave Us?	49
CHAPTER 3—INTELLECTUAL CAPITAL REPORTING	53
The Limitation of Financial Reporting	53
Analyzing IC Reporting Initiatives—The Two Approaches	54
The First Approach—IC Reporting in Financial Statements	54
The Second Approach—Separate IC Reporting Models	56
The US Experience	57
Science and Technology Indicators	57
New Economy Index	57
CHI Research	57
The Knowledge Scorecard	57
The European Experience	58
Swedish Companies	58
Danish IC Statements	58
The Canadian Experience	58
Total Value Creation (TVC) Method	58
Global Initiatives	59
The Global Reporting Initiative (GRI)	59
Organization for Economic Cooperation and Development (OECD)	59
Suggestions for Developing a Universal IC Reporting Model (UICR)	59
CHAPTER 4—THE COMPREHENSIVE INTELLECTUAL CAPITAL MANAGEMENT (CICM) APPROACH	63
The Stages of Business Management and the CICM Approach	63
The First Stage—Managing IC as Raw Knowledge Resources	65
The Second Stage—Managing IC as Innovation Resources	65
The Third Stage—Managing IC as Intellectual Property	65
The CICM Model—Not Another Set of Circles	67
New Management Approach	68
Making Sense—Overcoming Business Skepticism	70
Synchronization and the Role of IC Strategy	71
Unlocking the Mystery of Value Creation and Maximization	72
Setting Objectives—Taking ICM to the Operational Level	73
PART TWO: THE THREE STAGES OF INTELLECTUAL CAPITAL MANAGEMENT	77
CHAPTER 5—THE KNOWLEDGE MANAGEMENT STAGE AND ORGANIZATIONAL IQ	79
Organizational Memory Loss and Brain Drain	79
What Is Knowledge?—Knowledge Is to Know!	81
The Information/Knowledge Interface—Two Sides of a Coin or	
Two Levels of Consciousness	82
The Individual/Organizational Knowledge Interface—One for All and All for One	83
Knowledge Management—A Means to an End	85
Strategizing Knowledge Management: Vision and the Role of Leadership	85

Knowledge Audit and Gap Analysis	86
Knowledge Strategies	87
Operationalizing Knowledge Management	90
Augmenting the Organizational Structure—Communities of Practice and the Freedom to Associate	91
Culture, Job Design, and Recruitment Policy	93
The Knowledge Base and IT Infrastructure	95
Storytelling or Anecdote Management—An Ancient Art Revived	97
Conclusion	98
CHAPTER 6—THE U.S. NAVY KNOWLEDGE MANAGEMENT SYSTEM: A CASE IN POINT	101
Background	101
The Strategic Level: How the Navy’s CIO Convinced Commanders that KM Is a War Strategy	102
Gap Analysis: Knowing What We Know and What We Need to Know	103
Operationalizing Knowledge Management: The Rough Plan	105
Structural Changes—CoPs	106
Culture—Not a Question of Sharing But of Security	106
Infrastructure, IT, and the Knowledge Base: The Interrelationship	108
Knowledge Management Tools	110
Systems Thinking: The Psychology of Organizational Action and Inaction	110
Performance Measures: The Use of Limits to Focus Attention	111
It Is Not How You Measure But What—Of Limits and Guiding Principles	111
Conclusion	114
CHAPTER 7—THE INNOVATION MANAGEMENT STAGE	117
Edison’s Style of Innovation Management	117
The Intellectual Capital Concept and Network-Based Innovation	119
Strategizing Innovation Management	120
Innovation Strategies and Competitive Positioning	121
Innovation Portfolio Mix and Risk Management	123
Operationalizing Innovation Management	124
Structural Changes—Loosen It Up or, in Jack Welch’s Words: “Shake It, Shake It, Break It”	124
A Culture for Innovation—Liberate the Innovative Spirit	127
Enabling Systems, Practices, and Tools: The Art of Innovating	130
Human Capital—Idea Banks	130
Customer Capital—The Malleable Innovation Resource	131
Competitive Intelligence	133
Technology Management and Patent Intelligence	134
Conclusion	135
CHAPTER 8—THE INTELLECTUAL PROPERTY MANAGEMENT STAGE	139
An IP Economy	139
The Birth of IPM and Its Many Shades	140
IPM and the IC Concept—The Job of Everyone Again	141
Strategizing IPM	143
The IP Audit and Portfolio Creation—Not a Legal IP Audit	144
IP Strategies Defining the Focus of IPM	145
A Blueprint for Competitive IP Strategies—Of War	146

Patent Strategies—Of Technological Wars	147
Trademarks/Branding Strategies—Of Wars Over Consumers' Hearts	148
Copyright Strategies—Of Soft Wars and the Next Hit	150
Value Transference Strategies	151
Blueprint for Commercialization Strategies—Of Peace	152
Operationalizing IPM—With All Due Respect to the Legal Department	154
Structural Changes—Of Strategic Focus and Synergy Teams	155
Cultural Changes	156
Enabling Tools and Practices—IP Valuation	158
Conclusion	159
CHAPTER 9—THE PIONEERS OF INTELLECTUAL CAPITAL MANAGEMENT—SKANDIA AND DOW CHEMICAL	163
Skandia: The Leader of the IC Revolution	164
The Business Model and the IC Revolution—Carendi and the First Torch	164
Passing the Torch to Edvinsson and His Team	166
Enlightening the Masses—The Navigator and the New Vision	166
Skandia's ICM Model—More than a Navigator	168
The Knowledge Management Stage	168
The Innovation Management Stage	170
Structure	171
The Intellectual Property Management Stage	172
Conclusions on Skandia	173
Dow Chemical: The Leap into ICM	173
Petrash's IAM—Paving the Way	174
Near and the Leap into ICM	175
Dow's ICM Model	176
The Knowledge Management Stage	177
The Innovation Management (IM) Stage	179
The Intellectual Property (Asset) Management Stage	180
Conclusions on Dow	181
PART THREE: STEP-BY-STEP GUIDE TO THE CICM MODEL	183
CHAPTER 10—FIRST GET YOUR ACT TOGETHER	185
The Business Model of the Knowledge Organization	185
Vision and Organizational Soul Searching	186
What Is a Vision?	187
Find Your People	187
Connect with the Outside World	188
Transform the Organization	188
Culture—The Main Enabler	189
Knowledge Sharing or Idle Socialization	190
Failure or Success—A Matter of Perspective	191
Cultural Change—Uncovering the Implicit Values	191
CHAPTER 11—IMPLEMENTING KNOWLEDGE MANAGEMENT UNDER THE CICM MODEL	195
Background	195
Management Objectives	195
Processes	196

Step-by-Step Guide	197
Process 1: Formulation of Knowledge-Based (or IC) Vision	197
Process 2: Cultural Audit and Transformation	200
Process 3: Knowledge Audits	201
Process 4: Strategizing Knowledge Management	208
Process 5: Communities of Practice	211
Process 6: Best Practices	212
Process 7: Knowledge Base and IT Architecture	213
Conclusion	217
CHAPTER 12—IMPLEMENTING INNOVATION MANAGEMENT UNDER THE CICM MODEL	219
Background	219
Management Objectives	219
Processes	220
Step-by-Step Guide	221
Process 1: Getting Started and Gap Analysis	221
Process 2: Deciding on Innovation Strategies	222
Process 3: Innovation Portfolio Mix	223
Process 4: Structural Changes for IM	226
Process 5: Employee Implementation of Ideas and the Right Culture	228
Process 6: Idea Banks and Employee Innovation	229
Process 7: Implementing the Lead User Method for Breakthrough Innovation	230
Process 8: Technology Management Methods	231
CHAPTER 13—IMPLEMENTING INTELLECTUAL PROPERTY MANAGEMENT UNDER THE CICM MODEL	233
Background	233
Management Objectives	233
Processes	234
Step-by-Step Guide	235
Process 1: IP Audit and Portfolio Creation	235
Process 2: Choosing Competitive IP Strategies	238
Process 3: Choosing Commercialization IP Strategies	242
Process 4: Building the IP Portfolio: IP Strategy Units	242
Process 5: Leveraging the IP Portfolio: IP Synergy Teams	244
Process 6: Making IPM the Job of Everyone: The IP Program	246
Process 7: Designing Valuation and Assessment Tools	249
CHAPTER 14—IC STRATEGY AND CUSTOMIZING THE CICM MODEL	253
Customizing CICM—The Main Three Variables	253
The Industrial Variable: Identify the Value Drivers	253
The Strategy Variable: Identify the Source of Competitive Advantage	255
The Organization’s Situation Variable: Do Not Start from Scratch	255
APPENDIX A—MINI MASTER’S OF BUSINESS ADMINISTRATION (MBA)	259
Strategic Management	259
Marketing Strategy	262
Organizational Structure	263

APPENDIX B—MINI MASTER’S IN INTELLECTUAL PROPERTY (MIP)	265
Having Working IP Knowledge for ICM	265
Patents	265
Acquisition and Scope of Protection	265
International Treaties and Protection in Other Countries	267
Implications for Legal Management	267
Infringement, Enforcement, and Litigation—What to Do When You Suspect Your Patent Is Being Infringed	268
Trade Secrets	269
Acquisition and Scope of Protection	269
Implications for Legal Management	270
Infringement, Enforcement, and Litigation	271
Trademarks	271
Acquisition and Scope of Protection	271
International Treaties and Protection in Other Countries	272
Implications for Legal Management	273
Infringement, Enforcement, and Litigation	273
Copyright	274
Acquisition and Scope of Protection	274
International Treaties and Protection in Other Countries	275
Implications for Legal Management	276
Infringement, Enforcement, and Litigation	276
A Summary	277
INDEX	279