

Index

A

absorptive capacity 191, 202, 204
 accountancy services 241
 accountants, cost and works 3
 accounting methods 1, 2
 accounting valuation approach 111, 112
 advertising 110, 111, 115, 120, 124, 241, 242, 247, 250, 253
 Alfa case study 190, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201
 analytic hierarchy process (AHP) 69, 71, 74, 75, 76, 77, 79, 82
 analytic network process (ANP) 69, 71, 74, 75, 76, 81, 82, 83
 architecture 241, 252
 asset erosion 39
 asset management 242, 244, 258
 asset mass efficiencies 39
 automobile manufacturing industry 50
 autonomy 51

B

balanced scorecard (BS) approach 3, 4, 9, 68, 70, 207, 213, 245
 balanced scorecard, customer measures 3, 245
 balanced scorecard, financial measures 3, 245
 balanced scorecard, internal process measures 3, 245
 balanced scorecard, learning and growth measures 3, 245
 ba (shared context) 51, 64, 65
 benchmarking 91, 93, 97, 102
 business performance 87, 93, 95, 104
 business performance improvement 14, 19, 20, 21

business process management (BPM) 210, 213, 214, 216, 217

C

calculated intangible value (CIV) 209, 210, 211, 212, 217
 Calculated Intangible Value (CIV) 211
 capabilities 30, 31, 33, 34, 35, 36, 37, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49
 capital 1, 2, 3, 5, 11, 12
 capital markets 93, 112
 causal ambiguity 68
 cause-and-effects relationships 20, 21
 Cisco Systems Inc. 115, 116
 cognitive mapping 67, 68
 collaborative organizational environment 168
 combination 50, 52, 53, 54, 55, 57, 58, 59, 60, 130, 135
 commercial accounting 3
 commercial accounting, financial 3
 commercial accounting, managerial 3, 6, 10, 11
 commodities 114
 communication, external 90, 93, 94, 98, 100
 communication, internal 93, 97
 competitive advantage 14, 18, 27, 28, 30, 31, 32, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 88, 90, 92, 93, 100, 102, 103, 125, 126, 133, 134, 138, 143, 144, 145, 146, 147, 148, 153, 154, 156, 157, 158, 159, 169, 170, 188, 189, 191, 192, 198, 201, 202, 203, 206, 222, 223, 224, 238, 242, 243, 245, 247, 248, 256, 257, 258, 259, 267, 268, 273, 275
 comprehensive ratio (ME/CV) 115

computer services 241
 connectivity 149, 150, 153
 consultancy approach 245, 246, 253
 continuous innovation 30, 87
 core process optimisation 222
 core process performance 222
 customer capital 246
 customer relationships 178
 customer satisfaction measures 89

D

Danish Guidelines 211, 212, 213, 215
 data 126, 127, 128, 129, 144
 dialogue 51
 documentation services 247
 driving objectives 51
 Du Pont 89
 dynamic capabilities 68, 86, 146, 147, 148,
 151, 152, 155, 191, 203, 204, 268, 269
 dynamic capabilities (DC) 146, 147, 148, 149,
 150, 151, 152, 153, 154, 155, 191, 202,
 203, 267
 dynamic environments 147
 dynamic knowledge flows 125, 126, 129, 132,
 143
 dynamic-oriented approach 25

E

economic assets 110
 economic growth 87, 110, 111, 113, 123, 265,
 270, 275
 economic sectors 110
 economic value 264, 265
 economic value-added profit 112
 economies of scale 228
 efficiency, external 175, 178, 179, 180, 181,
 182
 efficiency, internal 173, 178, 179, 180
 EFQM Excellence model 207
 empirical judgments 53
 employee competence 210, 211
 employee satisfaction measures 89
 employee turnover 156, 157, 159, 160, 162,
 164, 167, 168, 169, 170
 engineering 241, 242, 250, 253
 environment 51, 52

environmental value 265
 equifinality 39
 equilibrium 36, 39
 ethos 50, 51, 59, 60, 61, 62, 63
 ethos, individual 50, 53, 60, 61
 ethos, organisation 50, 51, 52, 53, 54, 55, 60,
 61, 62, 63
 ethos, team 50, 56, 61, 62, 63, 65
 European Foundation for Quality Management
 (EFQM) 207, 219
 European Union (UE) 271
 exploitative learning 248, 256
 exploratory learning 248
 externalization 50, 52, 53, 54, 55, 57, 58, 59,
 60, 130, 135
 external organizational skills 36

F

financial assets 111, 112, 113, 114, 115, 120,
 121
 financial capital 15, 19
 Finland 205, 208, 209, 210, 211, 212, 215,
 216, 217, 219, 220, 221
 firm, implicit theory of 2
 firm performance 30, 31, 32, 34, 37, 38, 40, 41,
 42, 45, 47, 48, 49
 firms, competence-based view (CBV) of 14,
 267, 268
 firms, knowledge-based view (KBV) of 4, 14,
 248, 267, 268
 firms, resource-based view (RBV) of 4, 14,
 30, 32, 39, 42, 43, 44, 45, 46, 47, 48, 89,
 242, 248, 263, 267, 268
 flow time 129, 130, 132, 133, 134, 135, 139,
 140, 142, 143
 fluctuation and creative chaos 51

G

generally accepted accounting principles
 (GAAP) 3, 5
 General Motors 89
 global competition 91
 globalization 30
 global trade 1
 goodwill 111, 114, 115, 120, 123, 124
 group cohesiveness 159, 162, 164, 168

H

holistic view 271
human assets 176
human capital 31, 32, 156, 157, 158, 159, 160,
165, 166, 167, 168, 169, 170, 171, 242,
243, 246, 247, 248, 252, 253, 259, 262
human resources 269
hyper-competition 30

I

IA management 243, 244, 248
IBM 222, 223, 225, 227, 228, 229, 232, 238,
240
IC, administrative (ICa) 4, 5
IC, dynamic aspects of 147, 148, 153
IC investments 210, 211, 215, 216, 217
IC management 205, 206, 207, 208, 209, 210,
211, 213, 214, 215, 216, 217, 218, 220,
221
IC management development projects 209,
210, 211
IC management model 205, 206, 207, 211,
214, 215, 217
IC, productive (ICp) 4
IC, static aspects of 147
IC value 210
indices 271
industry-adjusted profitability 112
information 126, 127, 128, 129, 144, 145
innovation 157, 158, 162, 164, 170, 172
intangible assets 68, 85, 86, 110, 111, 112, 113,
114, 115, 116, 117, 118, 119, 120, 122,
123, 124, 205, 218, 221
intangible assets value 110, 111, 112, 115, 124
intangible capital (IC) 110, 111, 115, 116, 120,
122
intangible investment risk 111, 120, 122, 124
intangible investments 110, 111, 116, 121, 122,
123
intangible (knowledge) assets 111
intangibles-driven earnings (IDE) 114, 115,
124
intangible valuation 111, 112, 113, 115, 116,
120, 121, 122
intangible value creation 111, 122

integrated supply chains 222, 223, 227, 228
intellectual assets (IA) 241, 242, 243, 244, 245,
246, 247, 248, 249, 251, 252, 253, 254,
255, 256, 257, 258
intellectual capital (IC) 1, 2, 3, 4, 5, 6, 7, 8, 9,
10, 11, 12, 15, 19, 25, 27, 29, 32, 43, 46,
48, 146, 147, 148, 149, 150, 152, 153,
154, 155, 156, 157, 158, 166, 167, 168,
169, 170, 171, 172, 205, 206, 207, 208,
209, 210, 211, 212, 213, 214, 215, 216,
217, 218, 220, 221, 242, 246, 247, 248,
260, 261, 262, 263
intellectual capital management 175
intellectual property (IP) 242, 243, 246, 247,
251, 253, 255, 256, 258
intellectual property rights 188
intellectual wealth 146, 147
internalization 50, 52, 53, 54, 55, 57, 58, 59,
60, 130, 132
inter-organisational knowledge 24
intrinsic work reflection 158, 162, 164
investors 2, 3, 5, 15, 16
IT-based assets 242
IT companies 94, 99
IT industry 99
IT systems 222, 223, 251, 252

J

job satisfaction 160, 162, 164

K

KM systems 222, 225, 235, 236
Knoware Dashboard 266, 270
Knoware Tree 72, 79, 81, 264, 266, 269, 270,
271
Knoware Tree framework 19, 20
knowledge 1, 2, 4, 5, 6, 7, 8, 9, 10, 11, 12, 125,
126, 127, 128, 129, 130, 132, 133, 139,
140, 141, 143, 145
knowledge application 24, 188
knowledge asset disclosure 93, 95, 97, 100,
101, 102, 105
knowledge asset dynamics 188, 189, 192, 201
knowledge asset measurement 87, 88, 89, 90,
91, 92, 93, 94, 95, 96, 97, 98, 99, 100,
101, 102, 103, 104, 106

- knowledge assets 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 41, 42, 47, 48, 50, 51, 60, 61, 62, 63, 183, 184, 185, 186, 187, 188, 189, 191, 192, 195, 197, 201, 203, 205, 216, 218, 220, 221, 222, 223, 224, 238, 239, 264, 266, 267, 268, 269, 270, 271, 272, 273, 275
- knowledge assets, allocation 67
- knowledge assets, flow management 13
- knowledge assets, identification and measurement of 13, 17, 18
- knowledge assets, management 67, 68, 69, 70, 73, 76, 77, 78, 80, 82, 83, 84, 85, 86
- knowledge assets, mapping 13
- knowledge assets value chain 174
- knowledge assets value creation chain 16, 17
- knowledge assets value creation map (KA-VCM) 21, 71, 72, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 174
- knowledge asset value creation dynamics 173, 174
- knowledge aware environments 225
- knowledge barriers 222
- knowledge-based aspects 146, 155
- knowledge-based economy 266, 267
- knowledge-based management 51, 63
- knowledge capital scoreboard 245
- knowledge capture 222
- knowledge centres 247
- Knowledge Codification 24
- knowledge consumers 128, 129
- knowledge conversion 126
- knowledge, corporate 89
- knowledge-creating process 50, 51, 52, 57, 59, 60, 61, 62, 63
- knowledge creation 50, 51, 52, 53, 54, 55, 57, 58, 59, 60, 61, 62, 63, 64, 65, 174, 179, 186, 187, 222
- knowledge creation enablers 50, 51, 52, 58
- knowledge dimensions 126, 130
- knowledge, disembodied codified 267
- knowledge, embodied 50
- knowledge enablers 51
- knowledge, explicit 52, 55, 59, 61, 63, 125, 126, 128, 142, 143, 225, 229, 236, 248
- knowledge-flow analysis 126, 130
- knowledge flows 125, 126, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 142, 143, 144, 145, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187
- knowledge flows, outbound 179, 182
- knowledge flow theory 125, 126, 132, 133, 143
- knowledge hierarchy 127
- knowledge hierarchy, abundance 127, 128
- knowledge hierarchy, actionability 127, 128
- knowledge identification 188
- knowledge indicators 93
- knowledge integration 126
- knowledge-intensive business services (KIBS) 241, 242, 243, 245, 246, 248, 250, 251, 252, 253, 254, 255, 256, 257, 258, 261, 262, 263
- knowledge management (KM) 15, 18, 20, 22, 25, 26, 88, 89, 90, 94, 100, 101, 104, 149, 150, 174, 175, 177, 179, 180, 184, 186, 188, 189, 191, 192, 195, 197, 201, 203, 222, 223, 224, 225, 227, 228, 229, 232, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 248, 249, 258, 260, 261, 263
- knowledge management processes 31, 33, 35, 41
- knowledge management system dependency model (KMSDM) 223, 224, 232, 233, 234, 235, 236
- Knowledge mapping 23
- knowledge power 135, 136, 137, 138, 139, 140, 141, 142, 143
- knowledge processes, internal 180
- knowledge producers 128, 129
- knowledge resources 17, 18, 20, 22, 24, 25, 26, 69, 83, 92, 99, 147, 148, 149, 153, 177, 266, 268, 269
- knowledge reuse 126
- knowledge sharing 126, 132, 188, 191, 193, 194, 223, 224, 228, 229, 230, 232, 237
- knowledge society 157
- knowledge stocks 33, 41
- knowledge storing 188, 191

Index

knowledge strategy 222, 224, 227, 229, 233, 235, 238, 240
knowledge, tacit 32, 33, 52, 53, 59, 61, 125, 126, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 142, 143, 144, 145, 158, 192, 223, 224, 225, 227, 229, 236, 237, 241, 245, 247, 248, 253, 267, 269, 270
knowledge transfer 126, 173, 176, 177, 178, 179, 181, 182, 183, 184, 185, 186, 191, 194, 222
knowledge vision 51
knowledge assets 89

L

leadership 149, 150, 151, 152, 153
lean service 190
learning culture 149, 150
learning flows 33
learning mechanisms 188, 189, 191, 192, 195, 197, 198
learning organisations (LO) 15
legal services 241, 253
Life cycle 132
Locke, John 4, 6, 8

M

management services 241
managers 2, 3, 5, 6, 7, 8, 9, 10
mapping 68, 69, 70, 82, 83, 84, 85, 86
maps, cognitive 70
maps, concept 70
maps, mind 70
maps, strategy 70, 71, 72, 82
map, success 70
market-minus-book 112
market research 241
market-to-book ratio (ME/BE) 115
market value 110, 111, 112, 113, 115, 124
Meritum Guidelines 210, 211, 212, 215, 217

N

net income (NI) 115
network capital 243, 246, 247, 251, 252, 255, 258

networks of trust 267
Nissan Motor Company 50, 51, 55, 56, 63, 64
norms 267, 268, 270

O

operational capabilities 191
orchestration skills 37
organizational capabilities 31, 34, 35, 37, 40, 41, 42, 43, 44, 49, 189, 191, 192, 197, 201, 204
organizational capabilities, dynamic 189
organizational capabilities, operational 189
organizational capital 31, 246, 247, 253, 254
organizational commitment 159
organizational culture 233
organizational flexibility 247
organizational knowledge 33, 64, 67, 82, 134, 145, 154, 168, 186, 236, 237, 238
organizational knowledge domains 17, 18, 19, 20, 22
organizational learning 188, 201, 203
organizational learning mechanisms 22, 33, 34, 195, 197
organizational networks 159
organizational performance 146, 157, 171, 172
organizational perspective 157
organizational renewal capability inventory (ORCI) 146, 147, 151, 153
organizational resources 14, 15, 16, 18, 19, 31, 270
organizational resources, infrastructure 16
organizational resources, people 16, 23, 24
organizational routine roles 35
organizational routine roles, coordination/integration 35
organizational routine roles, learning 35
organizational routine roles, reconfiguration 35
organizational routines 34, 35, 40, 41, 42, 44, 49, 189, 191
organization intention 51

P

Penrose, Edith 2, 8, 10
performance managers 87
performance measurement systems 213, 214, 221

performance measures 88, 89, 90, 91, 92, 102, 104, 105, 106
 performance measures, financial 89
 performance measures, non-financial 89, 90, 91, 95, 100
 Performance Prism 213
 physical assets 111, 112, 113, 114, 115, 121
 physical capital 31
 practical application 158, 162, 164
 practice 50, 51, 52, 61, 62, 63
 process optimisation 232
 product cycles, reduced 30
 production improvement 50, 52
 productivity 173, 174, 175, 176, 177, 178, 179, 180, 182, 183, 184, 185, 186

R

R&D investment 111
 R&D projects 111
 R&D services 241
 redundancy 51
 regulators 2, 3, 5
 relational assets 176
 relational capital 158
 relational resources 270
 relationship capital 32
 relative dynamics 134, 135
 relative quantity argument 2
 renewal capital 146
 renewing organizations 150
 requisite variety 51
 research and development (R&D) 110, 111, 112, 113, 114, 115, 116, 120, 122, 123, 124, 210, 211, 219, 220
 resource-based perspectives 37
 resource-based view 189, 202, 203, 242, 248, 263, 275
 resource-competence-capability 146
 resources 2, 4, 5, 6, 7, 11
 resources, intangible 31, 32, 33, 42, 44, 45, 48, 68, 72, 73, 85
 resources, tangible 31, 33, 45
 return on investment (ROI) 89, 104
 risk management 91

S

scientific management 4
 sense and respond approach 190, 191, 192, 193, 195, 197, 198, 199, 200, 201
 service providers 174, 175, 176, 177, 178, 179, 180, 181, 183, 184
 services 1, 2, 8
 service sector 174, 175, 179, 185, 186
 shareholders 2, 5, 6, 16
 shareholder value 87, 105
 Smith, Adam 3, 4, 8
 social capital 247, 253, 261
 socialization 50, 52, 53, 54, 55, 57, 58, 59, 60, 130, 135, 142, 143
 socialization, externalisation, combination, internalization (SECI) process 50, 52, 53, 54, 62, 63, 64
 social resources 270
 socio-cognitive environment 270
 socio-cultural value 265
 socio-technical processes 35, 40, 189
 Spiral Model 129, 130, 135
 stakeholder groups 92, 99
 Stakeholder Knoware 72, 269
 Stakeholder Knoware, Netware 72, 73, 269, 270
 Stakeholder Knoware, Wetware 72, 73, 269, 270
 stakeholder knowledge assets 19
 stakeholder knowledge assets, brainware 19
 stakeholder knowledge assets, netware 19
 stakeholders 16, 19, 67, 69, 70, 72, 73, 74, 80
 stakeholders, external 91, 92, 93, 94, 97, 99, 101
 stakeholder theory 92, 99
 stakeholder value orientation 265
 Statistics Finland 209
 strategic competence 149
 strategic strength (SS) 2
 structural assets 176
 structural capital 32, 156, 158, 159, 160, 165, 166, 167, 168, 267
 Structural Knoware 72, 269
 Structural Knoware, Hardware 72, 73, 269, 270

Index

Structural Knoware, Software 72, 73, 269, 270
structural knowledge assets 19
structural knowledge assets, hardware 19
structural knowledge assets, software 19
sustainable competitive advantage 191
systems thinking 190

T

tangible assets 87, 110, 111, 120, 122
tangible capital (TC) 1, 2, 3, 4, 5, 6, 7, 8, 10, 15, 19, 28
technical services 241
technological knowledge 113
technological spillovers 267
territorial development 264, 265, 266, 267, 271
territorial system 265, 266, 267, 268, 269, 270, 271, 272, 273
time compression diseconomies 39
time, exploitation of 149, 150
Tobin, James 1
Tobin's Q scores 1, 112
transformational leadership 190
transformative learning 248, 256

U

use value 2

V

Value Added Intellectual Capital (VAIC™)
210, 211, 212
value chains 3, 5, 174, 185
value creation 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 26, 27, 29, 30, 41, 42, 47, 67, 68, 69, 71, 73, 74, 76, 82, 83, 84, 85, 86, 146, 147, 153, 155, 173, 174, 175, 184, 185, 187, 264, 265, 266, 267, 268, 269, 272, 273, 275
value creation maps 174
value creation, stakeholder-based 16
value creation, territorial 264, 266
value generation 69, 82

W

work attitudes 157, 160, 165, 166, 167, 168