Index

Ability, 70 Absorptive capacity, 45, 114 Academia, 105 Acoustic articulation, 51 Actors, 44-45 in safe behaviors domain, 237 Adversity competence, 80 Aggressive communications, 53 Anthropology, 31 Articulation, 51 guiding questions pertaining to, 52 Artificial intelligence (AI), 4 Artistic articulation, 51 Assertive communicators, 53 Assessment of knowledge translation, 129, 136-137 definition and characterization, 130 designing, 133-137 end state, 133 initial state, 132 learn and understand, 132 logistics and mechanics of assessment, 137-138 process, 132-133 scale of, 135 scope of, 134-135 shifting landscape, 130-131 translation of, 135-136 Asset. 4 Attitude, 70-71 Augmented reality (AR), 101 Automated call-handling systems, 200 Automated help centers, 199 business case review, 214 domain overview, 200-205 key actors, 208 key components from knowledge perspective, 205-209 knowledge basics, 209-211

knowledge translation in, 211-213 Automated medical transcription applications, 225 Automatic speech recognition (ASR), 201 Aymara culture, 106 Best evidence, 26 **Bi-directional conversation**, 208 Big data, 101 Breast units, 162 Business goals of service providers, 202 Business performance assessment, 30 - 31Call centers, 200 Capabilities, 87-88 Channels, 121 communication, 121–122 and representation of knowledge, 126 and scale and type of communication, 122-126 by scale and type of communication, 125–126 ChatGPT family of programs, 208 Clinical domain, 160-162 Clinical knowledge, 159 Co-creation, 97 Combination. 97 Communication, 52-55, 77, 162-164 channels, 55-56, 121-122 competence, 75 guiding questions pertaining to, 54 sciences, 21 style, 53–54 theory, 30 Competences, 69-73

Competencies, 69-73 Competitive strategy, 111 Complexity, 80-81 Concentration, 48 Context-focused models, 27-28 Coordinated Implementation Model, 28 Cost of time, 5 Coverage, 48 COVID-19 crisis, 81 pandemic, 3-4 Creative leadership, 89-90 Creativity, 89 competence, 83 Critical capabilities, 87-89 Cross-country technology business case review, 194-195 design and implementation ecosystem, 187–189 domain overview, 184–187 environment context, 185 key stakeholders and actors, 190 - 191knowledge basics, 192-193 knowledge flows by levels of ecosystem, 191-192 knowledge structures, 189-190 knowledge translation in, 193-194 organizational context, 186-187 technology context, 185-186 Cultural competence, 75 Cultural studies, 31 Cultural translation, 31 Culture, 183 Customer knowledge management, 98 Customer service engineers, 149, 152 Data science, 101 Deliberate strategies, 106 "Demand pull" model, 24 Deterministic thinking, 90 Dial-tone interaction, 200–201 Digital competence, 76–77 Digital literacy competence, 76–77

Digitalization, 107 Disease units, 162 Disruptive information technologies, 4 Distance, 48 Doctor-patient discourse, 217 business case review, 227 domain overview, 218-219 ecosystem, 220 key actors, 222 knowledge basics, 223-225 knowledge flows across levels of ecosystem, 222-223 knowledge structures, 220-222 knowledge translation in, 226 - 227Domain competence, 75–76 Domain to domain knowledge translation, 63-64 Durability, 48 Dynamic capabilities, 88 Ecosystem view of domain, 146, 156–157 Emergent strategies, 106 Emotional knowledge, 5, 11–12 Empiricism, 7-8 Energy, 11 Engineering knowledge, 147 flows, 150-152 Enterprise architecture, 184 Entropy, 9, 76, 100 Environment context, 185 Episteme, 8 Epistemology, 7 Ethnography, 31 Evidence-based practice (EBP), 23, 25 - 26Evolutionary strategy, 111 Exchange, 52–55 Experience goods, 4 Expert knowledge translation model, 77-78,98 Explicit knowledge, 8, 10, 42 Externalization, 97, 114 Extreme reality, 101

Face-to-face channels, 123 Feedback, 169 Field, 11 Financial lending, 243 business case review, 254 domain, 244-246 ecosystem, 247-248 key actors, 249-250 knowledge basics, 251–252 knowledge flows across levels, 250 - 251knowledge structures, 248–249 knowledge translation in, 252-254 markets, 244 Fluid flow, 10 Foresight, 109 Formal lending approaches, 247 Generic capabilities, 88–89 Generic knowledge strategies, 112-113 Generic skills, 71 Geography of network, 55 Grameen Bank, 247 Group to group translation, 63 GTM, 143-144, 146, 148 customer service engineers, 152 sales engineers, 151 Hard information, 248–249 Hard knowledge, 174 Hard skills, 71 Health practitioners, 177 Healthcare, 155, 170 business case review, 164 domain overview, 155-156 industry, 162, 175-176 intermediaries, 175 key components from knowledge perspective, 156-159 knowledge basics, 159-160 knowledge flows, 160-162 knowledge translation in disease units, 162-164 Human capital, 14 Human knowledge, 42

Iceberg metaphor, 10 Ideograms, 75 Imagination competence, 83 In-country pharmacists, 177 In-country spiritual and cultural authorities, 178 Individuals' knowledge, 10 Inertial thinking, 91 Information asymmetry, 245–246 Information dissemination, 26 Information entropy, 9 Information technology, 100–101 Innovation, 116 Institutionalizing, 98 Intangible assets, 4 Integrating, 98 Integration, 88 Intellectual capital, 13, 83, 91 Intelligent actors, 218 Inter-organizational stakeholders, 146.157 Interaction with structured data (ISD), 212 Interaction-focused models, 27–28 Interactions, 52, 54, 162-164 channels of, 55-56 Interactive voice response (IVR), 213 Interdisciplinarity, 81 Interdisciplinary knowledge translation model, 80, 98 creativity competence, 83 imagination competence, 83 knowledge integration competence, 83 metaphorical thinking competence, 82 - 83Intermediaries, 175 Internal knowledge flows, 148-149, 159-160 Internalization, 97 International non-governmental organizations (INGO), 173-174, 176 Internet of things (IoT), 101

Interpretation, 73 Interpreter, 73-74 Interpreting, 98 Intra-organizational stakeholders, 146, 157 Intuinting, 98 Kinesthetic articulation, 51 Knowledge, 9-10, 70, 81 acquisition, 114-115 actors/stakeholders, 146, 157 articulation and representation, 50-52 asymmetry, 245-246 attributes, 11 attrition, 100 basics, 192-193, 209-211, 223-225 capital, 3, 13-15 co-creation, 92, 96-98 component, 41, 209 creation, 116 diffusion, 29 dissemination, 29 economy, 3-6, 17 entropy, 9, 100 exchange, 29 exploitation, 114 exploration, 115-116 forgetting, 100 hiding, 100, 115 hoarding, 115 integration competence, 83 knowledge-based organizations, 6 knowledge-intensive organizations, 6 leakage, 100 loss, 100 map, 114 markets, 5 resources, 6-9 risks. 99 security, 99-100 sharing, 29, 115 spillover, 100 stakeholders and actors, 173 strategies, 111

transfer. 29 transformation, 29 vulnerabilities. 99 waste, 100 Knowledge assets, 3-6, 41-44 guiding questions, 43 Knowledge dynamics, 9-13 competence, 79 Knowledge ecosystem, 170–172 scale of translation in, 60-65 scope of translation in, 56-60 Knowledge flows, 7, 147, 158, 250-251 external stakeholders, 149-150 internally to help center exchange, 210 - 211involving external stakeholders, 160 levels of domain, 208-209 levels of ecosystem, 191–192, 222-223, 238-239 in safety behaviors, 241-242 scope of ecosystem, 205-206 Knowledge management (KM), 6-9, 21, 111 Knowledge structures, 9–13, 146, 157, 172-173, 189-190, 206-208, 220-222, 236, 248-249 safe design of environment, 236 Knowledge translation (KT), 12, 15, 21, 29, 37, 87, 90, 152–153, 155 actors, 44-45 in automated help centers, 211–213 business performance assessment, 30-31 central government to single units. 164 channels of interaction, 55-56 clinicians with different expertise, medical scientists and other professionals, 163 communication and exchange, 52-55 communication theory, 30 competencies, 69 conceptual model, 37-39

in cross-country technology design and implementation, 193-194 cultural studies, anthropology and ethnography, 31 current challenges with KT theory and practice, 26-28 definition and characterizations, 22-24.106-107 in designing safety into environment, 241 in disease units, 162-164 in doctor-patient discourse, 226-227 emergence of, 16–17 in financial lending markets, 252-254 foundational components, 39 for improving safety in transportation, 240-242 to KM. 28-30 knowledge articulation and representation, 50-52 knowledge assets, 41-44 knowledge component, 41 levels, 158-159 linguistic theory, 30 model and framework, 39-41 patient to physician, 163 physician to patient, 163 predicting future, 107-110 public sector entity, 164 in regulatory and compliance systems, 267 relationships, 45-50 scale of translation in knowledge ecosystem, 60-65 from science to clinical results. 163 scope of translation in knowledge ecosystem, 56-60 strategies, 105-106, 110-117 theory, practice and evolution, 24 - 26translation component, 50

Knowledge-to-Action (KTA), 28 Known-unknown dynamics, 111 Language, 76 knowledge translation, 98 Language translation model (LTM), 73 (see also Interdisciplinary knowledge translation model) adversity competence, 80 communication competence, 75 cultural competence, 75 digital competence, 76-77 domain competence, 75-76 expert knowledge translation model, 77-78 knowledge dynamics competence, 79 learning competence, 76 linguistic competence, 74 problem-solving competence, 76 semantic competence, 78-79 social competence, 79 translation competence, 74-75 trust competence, 80 Leadership, 89 Learning competence, 76 Learning organizations, 6 Lenders, 246 Linearity, 91 Linguistic articulation, 51 Linguistic competence, 74 Linguistic theory, 30 Linguistics, 21 Local community, 177-178 Local midwife, 177 Low level uncertainty, 109 Macro level, 60-64 flows, 265 knowledge flows, 222

knowledge translation and channels, 124–125 lending markets, 250 Macrolending market, 247

Manipulative communicators, 53 Manufacturing, 143 business case review. 153-154 domain overview, 143-144 engineering knowledge flows, 150-152 knowledge basics, 147-150 knowledge translation, 152–153 process, 144-147 Medical corporations, 218 Medical domain, 223-224 Medical faculty, students and researchers, 176-177 Medical information systems, 218, 224-225 stakeholders, 219 Medical stakeholders, 219 Meso level, 60-61, 63 flows, 266 knowledge flows, 222 knowledge translation and channels, 123-124 lending markets, 250-251 Meso-lending market, 247 Metaphor, 10, 81 Metaphorical thinking, 10 competence, 82-83 Metaverse, 101 Micro level. 60-63 flows, 266–267 interactions, 123 knowledge flows, 223 lending markets, 251 Microlenders, 246 Microlending, 245–247 Microlending markets, 247, 249 Midwives, 177 Minds, 12 Moderate uncertainty, 109-110 Natural language, 201 New Product Development (NPD), 98 Newsweek, 94 Nokia Company, 109

Non-competitive markets, 5

Non-governmental organizations (NGO), 176 Non-human actors, 45, 211–212 Non-technical skills, 159 Non-word events, 213 Open innovation, 116 Opportunity costs, 5 Organizational context, 186-187 Organizational culture, 94-96 Organizational integrators, 6 Organizational learning, 98-99 Ottawa Model of Research Use, 27 Passive communicators, 53 Patient stakeholders, 219 Patient-centered healthcare ecosystem, 63 Patient's domain, 161, 224 Person-to-person geographies, 55 Person-to-person knowledge translation, 62-63 Phronesis, 8, 93 Possible future, 107 Preferable future, 107 Proactive regulation, 259 Probable future, 107 Problem-solving competence, 76 Procedural knowledge, 42-43 Public good, 4 Quality of service, 202 Rational knowledge, 11–12 Rationalism, 7 Reactive regulation, 259 Receiver semantic universe (RSU), 77 Regional or location-based community lending, 245 Regulatory and compliance systems, 257 compliance ecosystem, 262-263

Non-excludable property, 5

compliance knowledge structures, 263-264 domain overview, 258-259 ecosystem, 259-260 key compliance actors, 264-265 key regulatory actors, 261-262 knowledge basics, 267 knowledge flows across levels, 265 - 267knowledge translation in, 267 regulatory knowledge structures, 261 Relatedness, 49 Relational capital, 15, 43 Relationships, 45-50 guiding questions pertaining for, 49-50 types of, 49 Research and education domain, 161 Research utilization and uptake, 24 - 25Restrictive regulation, 259 Risk, 90 Safe behavior in transportation, 235 - 236Safety, 232-233 Sales engineers, 149, 151 Scale of knowledge flows across ecosystem, 173-174 Scenarios, 108 thinking, 108 Secondary communications, 220 Semantic articulation, 51 Semantic competence, 78–79 Semantic links, 48 Semantics, 74 Sender semantic universe (SSU), 77 Service engineers, 150 Shared value system, 93–94 Significant uncertainty, 110 Skills, 71 Social competence, 79 Social media platforms, 124 Social sciences, 49

Social structure, 90 Social support communities, 178 Socialization, 97 Socialization, Externalization, Combination, Internalization model (SECI model), 12, 83, 116 Soft information, 248-249 Soft skills, 71, 159 Source language, 74 Spiritual intelligence, 13 Spiritual knowledge, 5, 11-13 Stakeholders, 205, 233-234 in domain, 219 Stetler Model of Research Utilization, 28 Stock-and-flow, 10 Strategic conversations, 92 Strategic foresight, 109 Strategic resource, 8 Strategic thinking, 90–91, 108–109, 111 Strategic work, 111 Strategizing, 111 Structural capital, 14-15, 42 Summation, 91 Tacit knowledge, 8, 10, 42, 160 Tangible assets, 4 Target language, 74 Techne, 8 Technical artifacts, 147 Technology context, 185–186 Technology domain, 183 Technology stakeholders, 219 Technology-organization environment framework, 185 Text messaging, 124 Touch-tone interaction, 200-201 Toyota Production System, 92, 95 Toyota Way, The, 94 Traditional medicine practitioners, 177 Transcription domain, 225 Transferable skills, 71

Transformation, 51 Translation competence, 74–75 Translation component, 50 Translator, 73-74, 76 Transparent regulation, 259 Transportation environment, designing safety in, 234-235 Transportation safety, 231 business case review, 242 domain, 232-234 ecosystem, 234-236 flows internal to safe environment design, 239-240 key actors, 236-237 knowledge basics, 239-240 knowledge flows across levels of ecosystem, 238-239 knowledge structures, 236 knowledge translation, 240-242 at macro level, 238-239 Trust competence, 80

Unknown-knowns, 112 Vehicle-to-infrastructure flows, 240 Vehicular network flows, 240 Velocity, 48 Video conferencing, 124 Virtual reality (VR), 101 Visual articulation, 51 Wild uncertainty, 110 Women of childbearing age, 175 Women's reproductive health, 169 business case review, 180 domain overview, 170 key actors, 174-178 key components from knowledge perspective, 170-174 knowledge basics, 174 knowledge translation in, 178 - 179Women's rights, 178