

Index

Page numbers with an *e* refer to exhibits.

A

Affinium, 71
Alvalade, 108–109
Analysis phase, BDID process, 19,
214, 215*e*, 216–223, 231
Apple Inc., 232
As-is process model, 156, 177, 178,
179–182, 180*e*, 220
AT&T, 232–233
Automation, 117–118

B

Balanced scorecard (BSC), 143–150,
148*e*, 221
 business planning in, 144, 221
 communication and linkage in,
 144, 221
 feedback and learning in,
 144–145, 221
 vision translation in, 143–144, 221
Bandwidth estimates, 189, 191,
196–202, 199*e*, 225
Bandwidth monitoring, 231–233
Bleeding-edge technologies, 47,
48–49, 48*e*
Budgeting for ICT projects, 5, 6, 7,
47–49
Business analysts
 BDID model and, 214, 215, 216,
 217–218, 219, 220, 221, 222,
 224, 225, 226, 228, 229, 230
 business process definition by,
 61–62, 66, 68
 business process model and, 157
 corporate unbundling and, 81, 84,
 85

 ICT design diagrams and, 188,
 189–190, 192, 194, 196, 197,
 202–203, 210–211
 ICT infrastructure decision making
 and, 21, 24, 53–58
 organization enablers and,
 112–113
 process improvement and,
 110–112
 process innovation and, 53, 69, 71,
 110–112
 process owners and, 66
 product innovation and, 71
 SWOT analysis and, 98–100
 value propositions and, 81, 85, 86,
 90
Business-driven infrastructure design
 (BDID) model, 213–235
 customer focus of, 214, 215*e*,
 233–234
 ICT design team in, 216, 224
 phases of, 18–20, 18*e*, 214, 215*e*,
 216
 process in, 213–214
Business intelligence (BI)
 definition of, 4
 ICT and, 4–5
Business planning, in balanced
 scorecard, 144, 221
Business processes, 59–66
 business process model and
 identifying, 157, 223, 224
 characteristics of, 73–74
 customer focus of, 63
 defining, 61–63
 documenting. *See* Documentation

Business processes (*Continued*)
 existing vs. new infrastructure
 used in, 59–61
 interaction of activities and
 operating procedures with, 68,
 68*e*
 levers in, 66
 management of, 64–65
 measurement of, 63, 64–65
 objectives and attributes of, 71–73,
 73*e*, 123
 ownership of, 65–66
 process innovation and, 71–73, 73*e*
 Business process maps, 156–158,
 158*e*, 159*e*, 220, 224
 Business process modeling (BPM),
 156–157, 158–185
 basic building blocks of, 170, 170*e*
 compensation activities in,
 170–171, 172*e*
 diagramming example in,
 171–173, 174*e*
 staff and manager involvement in,
 162–163
 terminology differences in,
 161–162
 TSI case examples of, 173,
 175–185, 176*e*, 180*e*, 184*e*
 Business process modeling notation
 (BPMN), 159–162
 best practices in, 162
 core graphic elements in, 166–169,
 167*e*–169*e*, 175, 182–183
 participants in, 160–167
 process types in, 163–164, 163*e*,
 164*e*, 165*e*
 terminology differences in,
 161–162
 terms used in, 166
 Business strategy
 analysis phase on, 218–219
 cost leadership and, 34–35
 definition of, 30
 FedEx examples of, 28–29, 30–31
 focused approach to, 33–34
 ICT alignment with, 53–54, 54*e*
 ICT implementation to support, 58
 industry-wide approach to, 30–32,
 35
 informational inputs for, 54–56
 product differentiation and, 35
 technology strategy linked to,
 35–36, 36*e*

C

Central Intelligence Agency (CIA),
 147–150
 Change initiatives. *See* Process
 improvement; Process
 innovation
 Cloud computing, 227–228
 Communication and linkage, in
 balanced scorecard, 144, 221
 Comparative SWOT analysis, 97–100,
 99*e*, 222
 Competitive advantage, 28, 29, 30,
 31, 33–34, 34*e*, 42, 48, 49, 58
 Competitive forces analysis, 55, 97,
 100–105, 104*e*
 Competitors
 analysis phase on, 217–218
 comparative SWOT analysis on,
 99–100, 99*e*
 importance of understanding, 219
 Connecting diagrams, 204, 205
 Constant Contact, 227–228
 Context diagram, 206, 207*e*
 Co-opetition, 103, 105
 Core competencies, 91–92
 Corporate unbundling, 81–85, 83*e*,
 86*e*
 Correlation statistic, 138–139, 221
 Cost-benefit analysis, 10, 128, 221
 Cost estimates, 225, 229
 Cost leadership, 34–35, 34*e*, 218, 222
 Cost reduction, 58, 81–82, 85, 90, 220
 Customer perspective index,
 149–150, 149*e*
 Customer relationship management
 (CRM), 7, 33, 68, 83–84, 83*e*,
 95, 233
 Customers
 analysis phase on, 217–218
 bargaining power of, 102–103,
 104–105
 BDID model's focus on, 214, 215*e*,
 233–234
 postimplementation phase and,
 233–234, 234*e*

D

Data and information quality (DIQ),
 135–137, 136*e*, 137*e*
 Decision making
 business analysts and, 21, 24, 33,
 53, 58

ICT function and responsibilities
 for, 6, 8, 13
 management role in, 37–40, 38*e*
 technology trend curve in, 47–49,
 48*e*, 49*e*
 Dell, 234*e*
 Deloitte Touché Tohmatsu, Australia,
 120
 Design documents, 156, 188,
 202–209. *See also* Diagrams
 Design phase, BDID process, 19, 214,
 215*e*, 223–229
 Desktop considerations, in design, 227
 Diagram list, 205–206
 Diagram notes, 204, 209, 209*e*, 210*e*
 Diagrams, 225
 connecting diagrams in, 204, 205
 context diagrams in, 206, 207*e*
 diagramming best practices in, 203
 diagramming conventions in,
 203–205
 diagram notes in, 204, 209, 209*e*,
 210*e*
 individual ICT diagrams in,
 206–209, 210*e*
 list of, 205–206
 splitting work groups on, 205
 Direct costs in TCO analysis, 126–127,
 126*e*
 Disintermediation, 120–121
 Disruptive technology, 40–42, 41*e*
 Documentation, 155–211, 224–225
 best practices for, 187–211
 business process maps in,
 156–158, 158*e*, 159*e*, 220, 224
 design documents in, 156, 188,
 202–209
 diagramming conventions in,
 203–205
 goal of, 156
 Ticket Sales Inc. (TSI) case
 examples of, 155, 158, 159*e*,
 173, 175–185, 176*e*, 180*e*,
 184*e*, 194*e*, 196, 197*e*, 207*e*,
 208*e*, 209*e*, 210*e*
 working documents in, 188
 See also Business process modeling
 (BPM); Business process
 modeling notation (BPMN)
 Document list, 205–206
 Downstream in supply chains, 92–93,
 93*e*

E

Economic models, 127, 221
 Economic utility, 127, 132–137, 221
 Enterprise resource planning (ERP)
 systems, 7, 111, 121–122
 Environmental scanning, 97

F

Fast followers, 29, 40, 42
 FedEx, 28–29, 30–31, 32*e*, 36, 39, 40,
 41–42, 59–60, 63, 67–68,
 118–119
 Feedback, in balanced scorecard,
 144–145, 221
 Financial-accounting approach to
 technology justification, 127,
 128–132, 221
 First movers, 28–29, 31, 35, 36
 Flying Dog, 234*e*
 Frito-Lay, 118
 Functional focus, 62
 Functionality list, 189, 191–193, 191*e*,
 194*e*, 196*e*, 224

G

Gap analysis, 156, 183, 217, 219–220,
 222, 223–224, 233
 Gartner, 7
 GlaxoSmithKline, 71
 Goal setting
 business process model and, 157
 ICT projects and, 8
 iterative IT planning process and,
 36, 37

H

Hardware installation, 229–230
 Hypercompetition, 60–61, 61*e*

I

ICT hierarchy diagram, 189, 191, 193,
 194–195, 196*e*, 197*e*
 ICT. *See* Information and
 communication technology
 (ICT) infrastructure;
 Information and
 communication technology
 (ICT) projects
 Implementation of ICT projects
 existing vs. new infrastructure
 used in, 59–61
 noncompetitive initiatives and, 65
 types of, 58–59

- Implementation phase, BDID process, 19–20, 214, 215*e*, 229–231
 - Indirect costs in TCO analysis, 126–127, 126*e*
 - Individual ICT diagrams, 206–209, 210*e*
 - Information and communication technology (ICT) infrastructure, 20–23
 - business analysts' responsibilities for, 21, 24, 33, 53, 58
 - business processes supported by, 59–66
 - business strategy alignment with, 31, 53–54, 54*e*
 - components of, 21–23, 21*e*, 190
 - documentation set in, 189, 190*e*, 202–209
 - informational inputs on, 54–56
 - market research and, 33
 - measuring business value of, 125–150
 - modeling of, 189–190, 190*e*
 - process improvement and innovation constrained by, 121–122
 - process improvement and innovation enabled by, 116–121
 - reasons to build, 52–53
 - using existing vs. new, 59–61
 - working documents on, 191–202
 - Information and communication technology (ICT) projects
 - belief in value of, 5–7
 - budgeting for, 5, 6, 7, 47–49
 - business intelligence and, 4–5
 - deciding when and why to build, 4–5
 - economic outcomes of, 56–58
 - goal setting for, 8
 - implementation of, 58–59
 - inventory of, 14
 - investment decisions in, 8–9
 - measurement of, 8
 - value management best practices for, 7–12, 11*e*
 - Information flows in supply chains, 94–96, 94*e*
 - Information technology (IT) departments, 5, 6
 - Infrastructure costs, 83–85, 83*e*
 - Innovation
 - customer-driven, 233–234, 234*e*
 - See also* Process innovation; Product innovation
 - Integration in product innovation, 70, 120
 - Intel, 70
 - Interaction costs, 82–84, 82*e*
 - Intermediaries in processes, 120–121
 - Interpersonal skills of managers, 37, 38*e*, 40
 - Inventory of ICT investments, 14
 - iPhones, 232–233
- K**
- Kimberly Clark Europe (KME), 115–116
 - KMG America, 120
- L**
- Leading-edge technologies, 47, 48, 48*e*
 - Learning, in balanced scorecard, 144–145, 221
 - LEGO, 234*e*
 - Licensing, 71
- M**
- Main data frame (MDF), 206–208
 - Main office core diagram, 208*e*, 209
 - Management
 - business process modeling and, 162–163
 - ICT implementation to support, 58
 - informational and interpersonal skills of, 39–40
 - process innovation and improvement and, 111, 115
 - self-assessment of value management awareness among, 11–12, 11*e*
 - structured skills of, 40
 - technology planning decisions and, 37–40, 38*e*
 - visionary role of, 38–39
 - MapInfo, 72
 - Market research, 33
 - Markets, competitive forces analysis of, 100–105, 104*e*
 - MasterCard, 72
 - Measurement
 - of business processes, 63, 64–65

in ICT projects, 8, 125–150, 220–221
in postimplementation phase, 231
Mission, 156, 157, 219, 222, 223
Multiattribute utility theory (MAUT), 132–135, 133*e*, 134*e*, 221

N

Netflix, 234*e*
Net present value (NPV), 130–132, 132*e*, 221

O

Objectives
in process innovation, 71–73, 73*e*, 123
strategic, 156, 157, 224
Orchestration, in product innovation, 70–71
Organizational tools, 218–219
Organization size, and design, 226
Outsourcing, 82, 83, 85

P

Porsche, 70
Porter, Michael, 29, 33–34
Postimplementation phase, BDID
process, 20, 214, 215*e*, 231–234
Process attributes, 72–73, 73*e*, 123
Process change documentation. *See* Documentation
Process focus, 62
Process improvement
business analyst and, 110–112
cross-functional teams in, 113
definition of, 107–108
design documents in, 156
ICT constraints on, 121–122
ICT infrastructure and, 116–121
organization enablers for, 112–116
process innovation vs., 107–108, 108*e*
scope of, 112
starting point for, 110–112
Process innovation
business analyst and, 53, 69, 71, 110–112
cross-functional teams in, 113
definition of, 108
design documents in, 156
example of, 108–110
ICT constraints on, 121–122

ICT infrastructure and, 116–121
organization enablers for, 112–116
political issues and, 113–116
process improvement vs., 107–108, 108*e*
process objectives and, 71–72
product innovation and vision for, 69, 70
scope of, 112
starting point for, 110–112
Process maps, 156–158, 158*e*, 159*e*, 220, 224
Process objectives, 71–73, 73*e*, 123
Process owners, 65–66
Product and services agreements (PSAs), 95
Product differentiation, 34, 34*e*, 35, 218, 222
Product focus, 62
Product innovation, 69–71, 69*e*, 83–84, 83*e*

Q

Quality improvement strategies, 81–82, 90, 112

R

Reach of content, 86, 87–88
Recommendations
on business process, 159, 177–178, 183, 231
on ICT design, 217, 218, 219, 223–224, 231, 233
on process improvement or innovation, 156
Regression analysis, 139–143, 141*e*, 142*e*, 221
Return on investment (ROI), 128–130, 129*e*, 130*e*, 221
Richness of content, 86, 87–88
Risk, in process change initiatives, 111, 112, 115

S

Sarbanes-Oxley Act of 2002, 65
Self-assessment of value management awareness, 11–12, 11*e*
Site surveys, 226–227
Soft products, 87, 93–94
Starbucks Coffee, 234*e*
Statistical approach to technology justification, 127, 138–143, 221

- Strategic objectives, 156, 157, 224
 Strategy. *See* Business strategy;
 Technology strategy
 Structured skills of managers, 37–38,
 39*e*, 40
 Suppliers, bargaining power of, 103,
 104
 Supply chains, 67, 68
 analysis of, 92–93, 96, 97*e*
 cross-partner processes and
 information flows in, 94–96,
 94*e*
 management model of, 94–95, 94*e*
 soft products in, 87, 93–94
 upstream and downstream in,
 92–93, 93*e*
 Sustaining technology, 40, 41, 42
 SWOT (strengths, weaknesses,
 opportunities, and threats)
 analysis, 36, 56, 97–100, 222
 System perspective index, 150
- T**
 Technology justification models,
 127–143
 Technology S-curve (technology
 curve), 42–47, 43*e*, 44*e*, 46*e*
 Technology strategy
 investment decisions in, 47–49,
 48*e*, 49*e*
 business strategy linked to, 35–36,
 36*e*
 iterative planning process for,
 36–37, 37*e*
 management role in, 37–40, 38*e*
 Technology trend curve, 47–49, 48*e*,
 49*e*
 Ticket Sales Inc. (TSI) case, 155, 158,
 159*e*, 173, 175–185, 176*e*,
 180*e*, 184*e*, 194*e*, 196, 197*e*,
 207*e*, 208*e*, 209*e*, 210*e*
- To-be process model, 156, 177,
 183–185, 184*e*, 220
 Total cost of ownership (TCO),
 126–127, 126*e*, 221, 225, 226
 Trailing-edge technologies, 47,
 48, 48*e*
- U**
 UPS, 28, 29, 36, 40, 42, 59–60
 Upstream in supply chains, 92–93, 93*e*
 U.S. Central Intelligence Agency
 (CIA), 147–150
- V**
 Valmet, 70
 Value chain deconstruction, 86–87,
 88, 90–92, 91*e*
 Value chain modeling, 88–90, 88*e*
 Value chains, 67–68
 Value management
 approaches to attaining, 12–17
 best practices for, 7–12
 challenges to adopting, 5–7
 definition of, 4–5
 quick self-assessment of, 11–12,
 11*e*
 Value propositions
 analysis phase on, 217
 corporate unbundling and,
 85, 86*e*
 definition of, 80
 Vision, 156, 219, 222, 223
 Visionary role of managers, 37,
 38–39, 38*e*
 Vision translation, in balanced
 scorecard, 143–144, 221
 Virtualization, 227
- W**
 Working documents, 188, 189,
 191–202