Index

A

AARK management, 26 as core IT PMO element, 91 defined, 22 early, 239-40 large company PMO structure, 100 small company PMO structure, 103 Accountability, 238–39 Analysis-paralysis, 63 Architecture, 239 alignment, 156-57 committee, 139 enterprise (EA), 117-19, 123, 125 IT, flexible, 138-39 management, 117-36 strategic, 52 Artesia BC case study, 87-88 Asset, architecture, resource, and knowledge. See AARK management Asset management, 141-58 aligning, 159 centralization, 152-53

core purposes, 142-43 EAM, 146-56 financial, 149-55 inventories, 142-46 long-term, 148 operational, 155-56 organizational support, 156 setup cost, 151 short-term, 148 summary, 156-58 TCO, 153–55 team, 148 Assets, 239 awareness, 155 cost control, 146 life cycle, 149-50 proactively ping, 155 rapid change notification, 157 rigid workflow process, 151 stranded, 146, 158 untracked, 145 Audit points, 79-83 establishing, 80

Audit points (continued) PMBOK methodology with, 84 project workloads with, 80 spiral project methodology with, 81 XP project methodology with, 82 Audits, 75, 201-4 applying, 204 content grading, 203 group focus, 203 methods, 203 predefined, 204 process flows, 202 review team, 201 Automated backups, 156 Autotracking tools, 150-52 defined, 150-51 effectiveness, 152

В

Balance, 211-17 bubble diagrams, 214-17 during initiative review, 200 efficiency improvement vs. strategic change, 211 project buckets, 211-14 Balanced portfolios, 19-20 Balanced Scorecard case study, 87-88 Basel II, 33-34 BMC Software case study, 159 Bubble diagrams, 214-17 cutoff points, 217 defined, 214 illustrated, 215 probability of success, 216 X-Y type of grid, 215 Buckets, 211-14 approaches, 212 defined, 211 design, 213 dynamic balancing, 214 See also Balance Budget/strategy alignment, 209 Buffers, 168-69 capacity, 171 explicit, 168 implicit, 168

management, 168-69 transferring, 170 Business case linking business initiative elements to, 74 standardized, 83 writers, 74 **Business** initiatives comparing, 206 elements, linking to business case, 74 IT PMO handling of, 24 methodologies, 61, 63-76 preliminary plan, 65 review process flow, 66 reviews, 198-201 Business intelligence solutions, 233 Business process improvement (BPI), 42 Business process reengineering (BPR), 1, 42 Business speak, 129 Business system modeling, 125-31 advanced EBA paradigms, 128 McDavid subdomains, 126-29 Penker-Erikson extensions, 129-31 traditional, 126

С

Capacity buffers, 171 Case studies aligning asset management, 159 aligning IT/business architectures, 138 Artesia BC, 87-88 automating resource management, 178 Balanced Scorecard, 87-88 BMC Software, 159 CitiGroup, 221–22 flexible IT architecture, 138-39 Harrah's, 115 HCA, 115-16 IT PPM software, 221 knowledge management, 193-94 microstrategies, 57-58 Royal Caribbean Cruises, 57-58 Safeco, 138 Siemens Building Technologies, 178 Toyota Motor Sales, 138-39

Virtual IT PMOs, 115-16 Centralization asset management, 152-53 contract, 157 CitiGroup case study, 221–22 Clinger-Cohen Act, 34 Collaboration tools, 232–33 Commercial off-the-shelf (COTS) packages, 41 servers, 149 software environments, 149 Consolidated inventories benefactors, 144 effects, 147 EIA control, 148 long-term benefits, 148 short-term benefits, 148 See also Inventories Constraints, 124-25 FOL, 124, 125 illustrated, 124 manageable, 125 Constructive Cost Model (COCOMO), 14 Corporate strategic alignment, 37-42 problems, 40 solutions, 41-42 See also Strategic alignment Corporate strategy accommodation to misaligned project, 47 as deliverable, 230 directions, 45 guided by misaligned project, 46 Critical chain, 171-72 Cumulative digression reengineering, 53-55 results, 53 Customer relationship management (CRM), viii, 11

D

Decision analysis, 207 Default risk, 4 Deliverables, 229–31 asset inventory, 230–31 corporate strategy, 230 initiative methodology, 230 phase 2, 234 phase 3, 236 project methodology, 230 tools, 231 Delivery process metrics, 208–9 Drum resources, 169–71 central schedule, 170 defined, 169 identification, 169 time management, 170 *See also* Resources Dynamic inventories, 143–46

E

Economic models, 207 EIS tools, 232 Electronic software distribution, 156 Enablers, 124-25 Enterprise architecture (EA), 117 benefits, 118 as business operation, 125 development choices, 119 leveraging, 123 Enterprise architecture management (EAM), 146-56 defined, 134 team, 133-34 Enterprise business architecture (EBA), 117, 121-31 alignment, 209 business system modeling, 125-31 constraints and enablers, 124-25 evolution, 121 McDavid subdomains applied to, 127 prepared, leveraging, 130 supply and demand, 121-24 Enterprise IT architecture (EIA), 112, 117, 131-33 control with consolidated inventories, 148 function, 131 high-level diagrams, 118 implementing, 133-36 layers, 132 restriction, 147

Enterprise IT architecture (EIA) (continued) review team, 134 subarchitectures, 132 Enterprise project management office (EPMO), 90 Enterprise project management tools, 233 Enterprise resource planning (ERP), viii Equipment acquisition, 75 Executive commitment, 106 Executive support, 25 large company PMO structure, 99-100 small company PMO structure, 102-3 Expert systems KM, 183, 190 Explicit buffers, 168 Externally focused KM, 182 Extreme Programming. See XP methodology

F

Facilities, 75 Facts of life (FOL) constraints, 124, 125 Financial asset management, 149-55 asset life cycle, 149-50 autotracking tools, 150-52 centralization, 152-53 setup cost, 151 TCO, 153-55 See also Asset management Financial investments, 2-6 conceptual risk/return tradeoff, 3 portfolio managers, 2-3 risks, 4-5 Flexibility, 59-86 concept balance, 40 defined, 61 initiative methodologies, 62-76 project methodologies, 76-83 strategy of, 39 summary, 83-85 Functional managers, 163-67 approaching, 16 defined, 163 portfolio view, 164

G

Governance, 107-12

corporate, components, 107 IT, 108–12 IT PMO, 107–8 teams, 115 Government regulations, 33–35 GPS information system (GIS), 40 Graphical user interfaces (GUIs), 40

Н

Harrah's case study, 115 HCA case study, 115–16

I

Implicit buffers, 168 Initiative methodologies, 62-76 as deliverable, 230 development, 69 implementation, 63 introduction, 63 metric mapping, 75-76 phase goals, 64 phases, 64 pipeline feeding, 200 presentation and project preparation, 73-75 problem context/understanding, 65 risk/option/cost analysis, 65-73 tailored, 63 See also Business initiatives Initiative reviews, 198-201 balance during, 200 defined, 198-99 examples, 199-200 maximization during, 200 prescreening, 199 process flow, 199 strategic alignment during, 200 Intellectual asset KM, 183 Interactive comparative models, 207 Internally focused KM, 182-84 Internal rate of return (IRR), 69, 70 Inventories, 142-46 consolidated, benefactors, 144 consolidated, effects, 147 consolidated, long-term/short-term benefits, 148

as deliverable, 230-31 distributed, consolidating, 145 distributed, effects, 147 dynamic, 143-46 multiple systems, 146 project, 145-46 reconciliation, 151 static, 143 See also Asset management IT business object speak, 129 IT governance, 108-12 decisions, 110 "tax rate," 111 traditional, 110-11 IT PMO, x-xii, 21-29, 89-113 accountability, 111 auditing function, x audit team, 79, 101 building blocks, 26, 91 business initiatives handling, 24 centralized, 92 central tasks, 237 core teams, 101 creation, 94 defining, 89-93 director, 93, 111 distributed, 92 elements, mapping, 90 enterprise, 90 goals, 25-27 governance, 107-8 governance matrix, 112 initiative review committee, 15 need, 89 organizational change, 104-12 organizational support, 29 reliance, 108-9 requirements, 90-91 rollout, 27-29 rollout keys, 104-6 satellite, 108 staff level, 96 structure, 96-104 summary, 112-13 support, 66 tailored, 92-93

tasks, xii team, 94, 95, 96 virtual, 77, 93-96 IT PPM AARK management, 22 balancing two directions, 237-40 bridging IT/business functions, 236 building blocks, 224 implementation, 1 introduction, 1-29 marketing, 224-26 organizational change, 240-42 PPM vs., viii-ix rollout, 226-36 software, 221-22 teams and committees, 228-29 IT project management, 1, 9-15 risk, 13-15 variable cost/budget, 12 variable functionality/scope/quality, 12 - 13variable schedule, 10 IT systems speak, 129

К

Key performance indicators (KPIs), 51, 52,87-88 examples, 87 gathering/reporting on, 88 Knowledge, 240 in data, 181 extracting, 183 measurement, 181-82 realization, 181 Knowledge base metadata, 186 Knowledge management (KM), 179-91 case study, 193-94 data accumulation/cursory presentation, 180-81 data analytics, 181 data gathering, 180 defined, 179 expert systems, 183, 190 externally focused, 182 as guiding compass, 179 intellectual asset, 183

Knowledge management (KM) (continued) internally focused, 182-84 knowledge creation, 183 knowledge in data, 181 knowledge realization, 181 layers, 181 money trail requirement, 188-89 more out than in requirement, 189 organizational support, 188-90 personal, 185, 190 PMO-supported, 184-90 project, 185-87 recognition requirement, 189-90 reliability requirement, 190 rollout, 188-90 success levels, 180-82 success requirements, 188-90 summary, 190-91 team, 188 virtual PMO, 187

L

Large company PMO structure, 96–102 AARK management, 100 executive support, 99–100 process, 102 quality assurance, 100–102 staffing, 97 staff requirement estimation, 98 *See also* IT PMO; PMO structure Local area networks (LANs), 120 Long-lead activities, 75

Μ

Mapped microstrategies, 52 Marketability risk, 4 Marketing, 224–26 models, 225 pitch, 224 product adoption and, 225 Market-methodology flexibility, 238, 242 Market risks, 6, 67 defined, 67 mapping, 68 unique risks vs., 68 Mathematical programming, 207 Maturity risk, 4 Maximization, 195, 204-10 apply effectively, 206 during initiative review, 200 metrics, 206-10 minimize in scope, 205 release carefully, 205-6 McDavid subdomains, 126-29 advanced EBA paradigms, 128 applying to EBA evolution, 127 boundaries to business, 127 business outcomes, 127 combining approaches, 128-29 defined, 126 mapped to supply/demand/constraint model, 126 See also Business system modeling Methodology piloting, 234 Metric mapping, 75-76, 204 Metrics, 206-10 asset/resource, 208-9 categories, 207 "dashboard" of, 232 delivery process, 208-9 financial, 208 initial valuation, 205-6 NPV, 216 selecting, 208 tracking, 207 Modern portfolio theory (MPT), 1, 2-9 financial investments, 2-6 goal satisfaction, 21 mapping criteria from, 23 project investments, 6-9 Monte Carlo, 14 Murder boards, 197

Ν

Net present value (NPV), 69–70 as cumulative values, 72 as decision analysis tool, 73 defined, 69 metric, 216 negative, 72 value, 73

0

Operational asset management, 155-56 Operational concepts, 75 Organization, this book, xi-xii Organizational change, 104-12, 240-42 benefits, 104-7 governance, 107-12 impediments, 104 tasks for TPR, 135 Organizational risks, 6 Organizational support, 223-42 balancing two PPM directions, 237-40 bridging IT/business functions, 236 marketing, 224-26 organizational change, 240-42 rollout, 226-36 Organizations cultural readiness, 106 large, PMO structure, 96-102 matrixed structure, 163 small, PMO structure, 102-4 Outsourcing, 172-75 avoiding, 173-74 as competitive thrust, 173 risk mitigation, 173 upsurge, 175 use of, 172-73 See also Resource management; Resources

P

Payback (PB) period, 69, 70–71 Penker-Erikson extensions, 129–31 Personal KM, 185, 190 PMO structure, 96–104 large, project-centric companies, 96–102 small, less project-centric companies, 102–4 *See also* IT PMO PMO-supported KM, 184–90 KM team, 188 organizational support, 188–90 personal KM, 185 project KM, 185–87 rollout, 188–90

See also Knowledge management Portfolio grid, 214 Portfolio prioritization, 195-217 audits, 201-4 balance, 211-17 criteria development, 197 initiative reviews, 198-201 maximization, 204-10 methods, 195 process, 196-98 process development, 198 qualitative measures, 197 quantitative measures, 197 review teams, 196-97 summary, 217 Portfolios balanced, 19-20, 93 building/maintaining, for strategic alignment, 18 flexibility, 59-85 maximization, 195, 204-10 metric mapping, 75-76 Portfolio selection, 16-21 balance, 19-20 maximization, 16-17 resource allocation, 20-21 strategic alignment, 17–19 Preliminary initiative plans, 65 Prescreening, 199 Private risks. See Unique risks Processes business, 1, 42 delivery, 208-9 development/support, 26-27 rigid workflow, 151 Product adoption phases, 225 Productivity, 47-49 Profit index (PI), 69, 70-71 as cumulative value, 72 defined, 70 Project buckets, 211-14 approaches, 212 design, 213 dynamic balancing, 214 Project investments, 6-9 risk cost, 8

Project investments (continued) risk premium, 8 risks, 6-7 Project KM, 185-87 knowledge base metadata, 186 project-specific knowledge bases, 186 requirement, 185 Project Management Body of Knowledge (PMBOK), 9, 83 as generic methodology, 83 illustrated, 84 Project managers (PMs), ix improving communication with, 231 pool, 109 risk level monitoring, 13 Project methodologies, 76-83 adopted, 78 audit points, 79-83 breadth, 78 clarity, 78 as deliverable, 230 depth, 78 enterprise-wide, 79 forcing convergence, 79 impact, 78 management teams, 77 pitfalls, 78-79 selection, 84 spiral, 81-82 support, 77 XP, 82 Project offices, 89-90 mapping elements of, 90 sizing/tailoring, 106 Project planning, 75 Project portfolio management. See IT PPM Project portfolio management offices. See IT PMO Projects, 42-49 audits, 201-4 categorizing resources for, 21 changing directions, 42-43 directions, 45 growth example, 45-47 health status, 221

inventories, 145-46 misdirect problems, 43 mismanagement, 13 postmortem collateral, 187 preparation, 73-75 prioritized list, 164 productivity example, 47-48 productivity-oriented, 23 rainbow options, 73 ranking order of, 208 real options analysis, 71-73 reevaluation, 202 sacred cow, 25 single release vs. iterative release, 62 strategic alignment, 42-49 success forces, 10 vector analysis, 43-45 very-high-value, 209

Q

Quality assurance (QA), 27 large company PMO structure, 100–102 small company PMO structure, 104

R

Rainbow options, 73 Rational Unified Process (RUP), 80 Real Options, 14 Real options analysis, 71-73 Reconciliation inventories, 151 Reengineering business, 54 cumulative digression, 53-55 cycle, 54 technical process, 135-36 Refactoring, 82 Resource allocation, 20-21, 162 overview, 20-21 smooth, 165 Resource management, 161-76 automating, 178 defined, 161 drum resources, 169-71 outsourcing, 172-75 summary, 175-76

tools, 165 virtual PMO, 176 Resources, 239 acquiring, 163-67, 175 allotted time, 166 categories, 21, 161 drum, 169-71 flagging, 165-66 minimum threshold, 20 morale support, 162 scheduling, 168-72 staffing bell curve, 166 supporting, 167-68 Return on investment (ROI), 10 final, 12 financial, 152 tools, 232 Review teams, 196-97 Risk(s) additive nature of, 14 cost, 8 default, 4 disruptive systems, 212 distribution, 20 financial investments, 4-5 identification, 66-67 illustrated, 4 layering, 13 level, monitoring, 13 market, 4, 6, 67 maturity, 4 methodologies and, 60-61 mitigate, 60 organizational, 6 premium, 8 project investments, 6-7 project (process), 7 review, 65 seniority, 4 supporting systems, 212 technical, 7 unique, 66-67 Rollout, 226-36 deliverables, 229-31 early wins and, 224 methodology piloting, 234

phase 1, 227–33 phase 2, 233–35 phase 3, 235–36 portfolio management teams/ committees, 228–29 SMART questions, 227 three-phased approach, 226–27 training, 235 Royal Caribbean Cruises case study, 57–58

S

Sacred cow projects, 25 Safeco case study, 138 Sarbanes-Oxley Act, 34-35 Scheduling resources, 168–72 buffers, 168-69 capacity buffers, 171 critical chain, 171-72 drum resources, 169-71 See also Resources Scope management, 60-61 Seniority risk, 4 The Seven Deadly Sins of Business, 54 Siemens Building Technologies case study, 178 Small company PMO structure, 102-4 AARK management, 103 executive support, 102-3 process, 104 quality assurance, 104 SMART questions, 227 Software automated distribution, 156 proactively ping, 155 tools, 231-33 Spiral methodology, 81-82 Staff, 75 requirements calculation, 101 requirements estimation (large organization), 98 requirements estimation (small organization), 103 virtual team support, 99 Stakeholders committee formation, 75 in content grading, 203

Static inventories, 143 Stranded assets, 146, 158 Strategic alignment, 17–19, 37–55 corporate strategy, 37-42 during initiative review, 200 frameworks, 49-51 IT projects, 42-49 portfolio building/maintenance for, 18 reengineering cumulative digression, 53-55 summary, 55 Strategic architecture, 52 Strategic business units (SBUs), 20-21 Strategic frameworks, 49-52, 51-52 alignment, 49-51 portfolio selection/tracking, 51-52 Strategies lessons, 48-49 microstrategies, 52 Supply and demand, 121-24 Supporting resources, 167-68 Synergy, 240-42

Т

Tailored PMOs, 92-93 Technical process reengineering (TPR), 135-36 defined, 135 organizational change tasks, 135 Technical risks, 7 Tools acquisition, 75 business intelligence solutions, 233 collaboration, 232-33 as deliverables, 231 EIS, 232 enterprise project management, 233 ROI, 232 software, 231-33 Total cost of ownership (TCO) asset management, 153-55 based on sticker price, 154 confidence intervals, 154 formula, 153

Total quality management (TQM), 34 Toyota Motor Sales case study, 138–39 architecture committee, 139 flexible IT architecture, 139 Training, 235

U

Unique risks, 66–67 defined, 66 mapping, 68 market risks vs., 68 Universal Modeling Language (UML), 126, 130

V

Vaporware, 223 Vector analysis, 43–45 Virtual PMO, 77, 93–96 asset management team view, 157 case studies, 115–16 committees, 94–96, 107 deliverables distribution, 110 EAM team, 133–36 extended teams, 101–2 KM team view, 187 overall team view, 229 overall view, 95 source management team view, 176 synergy, 240–42 See also IT PMO

W

Waterfall methodology, ix Wide area networks (WANs), 120

Х

XP methodology, 82–83 defined, 82–83 diagram, 83

Y

Yellow pages test, 173