

## Index

**Note:** Figures and Tables are indicated by *italic page numbers*

- account aggregation 15, 21, 161
  - project to implement 161–2, 207
- adopters of innovation, classification of 39–41
- adoption decision process in firms 53–7
  - agenda-setting phase 53–4
  - clarifying phase 53, 55–6
  - matching phase 53, 54–5
  - redefining/restructuring phase 53, 55
  - routinising phase 53, 56–7
- adoption decision process for individuals 32–8
  - confirmation stage 33, 37–8
  - decision stage 33, 35–6
  - implementation stage 33, 36–7
  - knowledge stage 33–4
  - persuasion stage 33, 34–5
- adoption S-curves 41, 42
  - effect of innovation attributes on 45–6, 49
  - in Five Capability Model 76
- Advanta (business credit card firm) 136–7, 154–5, 269
- agenda-setting phase (in adoption decision process) 53–4
- ‘ah ha’ moment 136
- Alter, Dennis 154, 269
- Amazon (online retailer) 111, 128, 203
- AMP Bank, Innovation Festival 131–3[case study]
- ANZ Bank of Australia 269
- Apple 5, 48, 54, 86, 213, 261
- architectural design (of information system) 189, 218–19, 296
- architecture, IT systems 97–8
- ATMs 18
  - cash-handling technology 55
  - extension to facilities 6, 68
  - first introduced 18, 22, 61, 227
- authority asymmetry 27–8
- authority structure 51
  - effect on innovation 52
- autocratic leadership style 229, 233, 241–2
- autonomous innovations 102–4, 157, 159, 296–7
  - example 103–6[case study]
  - factors affecting 103, 106, 177
- Azaroff, William 104, 105
- back-office procedures, mechanisation of 16–17, 18, 214
- BACS (Bankers Automated Clearing Services) 18
- bad innovation performers 261–5
  - types 262–4
- Bank of America 85–8[case study]
  - Centre for Future Banking 188–91[case study], 284
  - early computers 4, 17, 22, 181, 214–15, 227
  - ideas management 136
  - in-branch experimentation 154
  - Innovation Advisory Council 87
  - Innovation Community of Practice 87–8
  - innovation metric 86, 272
- Barclays Bank 17, 18, 22, 70, 227
- Basel II compliance 94
- Bass, Frank 43
- Bass model 43–4, 49
  - curve fitting for 44, 131
- Beise, Seth Clark 215, 227
- benefits, measuring and quantifying 174
- beta testing 208, 211
- big money innovation programmes, reasons for failure 91–3
- blogs 113, 283, 284
- Boeing 787 DreamLiner 15
- Booz Allen Hamilton, predictions and reports 2, 10

- Boston Consulting Group 173, 272, 273  
 branch network procedure changes 237  
 breakthrough innovation(s) 3–5, 69, 194–5  
   continuing involvement of innovation team 197, 213–14  
   costs 14  
   examples 17, 18, 19  
   execution of 195–6  
   people aspects of implementation 215–17  
   post-launch operations 213, 214–19  
   reward systems for 276, 277  
   risk level 3, 12, 109  
   team members' attitudes 251  
   technology aspects of implementation 217–19  
 bureaucratic leadership style 229  
 business case for investment 166, 175–6, 295–6  
   as sales document 176  
 business-level signals, as input to futurecasts 113  
 business-model innovations 68–9, 74–5, 160  
 business plan 79–80
- Caja Navarra 84, 285–7[case study]  
 Calman, Matt 85, 86, 87, 88  
 'Can we get it up?' test 177–8  
 'Can we?' question 161, 295  
   requirements document and 199  
   tools for 176–82  
 capacity considerations 218–19  
 career paths 305–6  
 Carter, Jeff 189, 190  
 case studies  
   AMP's Innovation Festival 131–3  
   Bank of America 85–8  
   Casa Navarra 285–7  
   Centre for Future Banking (MIT/Bank of America) 188–91  
   Innovation Market 223–5  
   PayPal 63–5  
   Royal Bank of Canada's Next Great Innovator Challenge 156–7  
   social media sites 57–9, 104–6  
   Vancity's ChangeEverything project 104–6  
 cash curve 173–5  
 cash-dispensing machines  
   first introduced 18, 22, 61, 227  
   *see also* ATMs  
 cash-handling technology for ATMs 55  
 catch-up strategy 183–4  
 central innovation investment fund 91–3, 282  
 Centre for Future Banking (MIT/Bank of America collaboration) 188–91[case study], 284  
 CEO-led innovation effort 83–4, 154–5  
 challenges, innovation in banks 106  
 championing stage (in Five Capability Model) 76, 77–9, 90  
   leadership styles 230, 231  
 change, people's reaction to 39–41, 204  
 change request process 205  
 chargeable service, innovation as 282  
 charismatic leadership 229–30, 234  
 cheques 111–12  
 Chesborough, Henry 181  
 chief innovation officer(s) 83, 233, 234, 269  
 Christensen, Clayton 6, 59–60  
 civic banking 286  
 clarifying phase (in adoption decision process) 53, 55–6  
 clearing services, automation of 18  
 cloud computing 81  
 clusters of ideas 293  
 collaboration 181, 189–91, 284  
 collaboration tools 224, 270  
 collaborative learning 251  
 collaborative working 102, 232, 236, 237  
 command-and-control organisations 52, 243, 249  
   social media introduced 57–9  
 command-and-control teams 259  
 compatibility, speed of innovation adoption  
   affected by 45, 46–7  
 competitive advantage, factors affecting 16, 22, 283–4  
 competitive barriers, fall of 1  
 complexity, speed of innovation adoption  
   affected by 45, 47  
 compromise 193  
   managing 203–5, 298  
 concept leaders 87  
 confirmation stage (in adoption decision process) 33, 37–8  
 consensus predictions 126–7  
 consultant-innovators 262–3  
 consulting role of innovation leaders 237–8  
 contactless payment systems 69–70, 145  
   *see also* NFC-based mobile phone-based payments  
 cooperative financial institutions 19, 51, 71, 72  
 cooptition strategy (for managing IT/innovation divide) 101–2  
 core banking IT systems 93  
   effect of ageing 94, 175  
   replacement of 175  
 corporate responsibility, investment decisions 286  
 corporate venturing 220–1, 277, 278  
 'cowboys' 264  
 creator-embellishers 256, 264, 304  
 creators (of ideas) 253–4  
 credit cards 17  
 credit scoring 17–18

- credit unions 51, 104
- critical mass point(s) 40, 42, 43, 44  
 Bass model and 44  
 in Five Capability Model stages 76, 78, 82  
 for Internet banking 131, 141  
 in launch of new product 212–13  
 in P2P example 115, 116, 118
- crowd-based evaluation of ideas 152–3
- crowd-based prediction methods 129
- Crystal Ball software 130
- cultural changes 202
- culture gaps, failure caused by 202
- curve fitting 44, 131
- custom-built systems 182
- customer co-creation 155–6, 291  
 examples 156–7
- customer insight 153–5, 179, 293
- customer lifetime value calculations 38
- customer participation in investment decisions 286, 287
- customer profitability, transparency rights 286
- customer reaction using prototypes 179
- Day, George 164
- Day matrix 164
- ‘deadpools’ for ideas 150, 151, 293
- decision stage (in adoption decision process) 33, 35–6
- decoupled debit 21, 72–3
- deduplication of ideas 142–3, 293
- defeatist-innovators 263–4
- definition(s) of innovation 3–8, 288
- delegating role of innovation leaders 238
- delivery pace, in implementation phase 202
- Delphi method 112, 127–8, 302
- democratic leadership style 229
- Deutsche Bank 72
- development costs 164, 165
- diffusion curves *see* S-curves
- diffusion of innovations 41–2, 213
- digital credit cards 253, 254
- Diners Club card 17
- direct banking 5, 7, 11, 21, 195
- direct connect 20
- direct mail laboratory 155
- dis-adoption 37–8
- discouragement of ideas creation 142
- Disraeli, Benjamin 129
- disruption theory 59–63
- disruptive innovation(s) 6, 7–8  
 continuing involvement of innovation team 197, 213–14  
 contrasted with sustaining innovation 6–7, 60, 61, 230  
 examples 21, 61, 220  
 post-launch operations 213, 220–2, 299–300
- risk level 12, 14, 109
- target customers 61, 83
- team members’ attitudes 251, 253
- timeframe for 23
- distributed innovation teams 3, 277–8, 279
- driving forces (in scenario planning) 120, 121–3
- ‘drowning the puppy’ 171–2, 193, 221, 228, 295, 296  
*see also* ‘puppy drowning’ process
- duplicate ideas, removing 142–3, 293
- early adopters 39, 40, 41  
 in influence maps 185, 186, 187, 188  
 value of loss 215
- early-delivery techniques 201
- early-launch strategy 183, 184
- early majority adopters 39, 40, 42  
 value of loss 215
- eBay 9, 10, 64
- ecological forces (in scenario planning) 122
- economic forces (in scenario planning) 122
- effort required in innovation process 168–71
- electronic transaction processing 4, 17  
*see also* ERMA
- email  
 introduction in banks 56  
 payment via 63–4
- embellishers (of ideas) 254–5
- entry timing 183–4
- ERMA (Electronic Recording Method of Accounting) computers 4, 17, 22, 214–15, 227
- ‘escape hatch’ ideas 152
- evaluator networks 143, 149–50, 292
- execution, managing 194–7, 304
- execution phase (in futureproofing process) 23, 27–8, 193–225  
 gunpowdered implementation 191, 195–6  
 hands-off approach 194–5  
 importance of 304  
 market reaction during 110, 113  
 monitoring of 240  
 reasons for failure during 32, 193–4, 200–3  
 recommendations on 297–300
- executive support 83–4, 154–5, 289
- expected returns  
 calculating 164–8, 294  
 proxy value used in calculations 167–8
- experience-based innovations 68, 72–3, 160
- experimentation with new ideas 154  
 in prototypes 179
- expert consensus 126–7
- expert evaluation of ideas 149–50, 153
- expert predictions 125–6
- explanatory aids, prototypes as 179

- Facebook 37, 42
- failure  
     constructive value of 32, 172–3  
     reasons for 32, 193–4, 200–3
- fake-ware 179
- fast-follower strategy 183, 184
- feedback systems 238
- fight-or-flee decision 62, 113
- ‘firebrands’ 88
- firm’s perspective on innovation 50–7
- Five Capability Model (for innovation teams)  
     75–85, 90–1, 288  
     championing stage 76, 77–9, 90  
     exceptions 83–4  
     futurecasting stage 76, 80–2, 91, 301  
     innovation strategy and 85  
     inventing stage 76, 77, 90  
     leadership styles in various stages 229, 230, 231, 232, 233, 234  
     managing stage 76, 79–80, 90–1  
     S-curves in 76  
     venturing stage 76, 82–3, 91, 221
- focus groups 153, 154, 293
- forecasting by analogy 45
- forecasts, compared with futurecasts 108
- free business models 110
- friendly relations between team members 260–1
- friendships within innovation teams 260–1
- front-office procedures, mechanisation of 16–17
- fuel cards 17
- funding of innovation programmes 280–3, 289
- futurecasting  
     overview 111–12  
     purpose of 108–10, 119, 300  
     recommendations on 300–2
- futurecasting phase (in futureproofing process)  
     23, 24–5, 107–33
- futurecasting stage (in Five Capability Model)  
     76, 80–2, 91, 301  
     leadership styles 230, 231, 233  
     team members and 253, 257
- futurecasts 2, 24–5  
     business-level signals as input 113  
     compared with forecasts 108  
     constructing with scenario planning methods 119–25  
     example 114–19  
     individual-level signals as input 112–13  
     market signals as input 113, 222–3  
     as part of strategic planning process 82, 112, 214, 234, 301  
     predictions added to 130–1  
     signals as input to 112–13, 222–3, 302
- futureproof institutions, characteristics 2
- futureproofing  
     arguments against 2  
     consequences of not doing 8–10  
     meaning of term 2  
     as phase-gate process 24, 107
- futureproofing process  
     building out 89–93  
     execution phase 23, 27–8, 193–225  
     futurecasting phase 23, 24–5, 107–33  
     ideation phase 23, 25, 135–58  
     innovation phase 23, 25–7, 159–91  
     measures used in 13  
     optimisations in 26, 29  
     overview 23–9
- gadgeteers 262
- gadgets 10, 96
- Gartner forecasts 125, 131
- geeks 232
- General Electric 181, 215
- generation-Xers  
     characteristics 248, 250  
     in main workforce 271  
     as team members 250–1, 252–3, 257, 259
- generation-Yers  
     characteristics 248, 251–2  
     in main workforce 271  
     as team members 252, 253, 258, 259  
     work practices 232, 252
- genius teams 257–8
- gift economy 110
- goals of organisations 50, 51
- goodwill 14, 177–8
- Google 13, 86, 261
- governance 196, 205, 268, 289
- Grameen Rural Bank 19, 51, 71, 72
- graphical user interfaces 57
- green issues, cost implications 81–2
- gunpowdered implementation 191, 195–6
- hands-off approach to execution 194–5
- HBOS (Halifax Bank of Scotland) 254
- Heijden, Kees Van Der 119
- high-effort innovations 170  
     example 171
- high-level designs 180–1, 199
- high-return innovations 167
- IBM  
     ATM magnetic stripe 18  
     ideas campaigns 138
- idea creators 253–4
- idea embellishers 254–5
- idea perfectors 255
- ideas  
     capturing and evaluating 15, 138–40, 210–11, 291  
     disposition of 150–1

- execution of 14–15
  - gating criteria for classification 150–1, 292–3
  - keyword/tag assignment 139, 143
  - reason for not driving forward 135–6
- ideas collection and cataloguing stage 140–3
- ideas management system 135, 138, 143, 152, 291
- ideas reward schemes 139–40, 224
- ideation
  - meaning of term 135, 290
  - role in futureproofing process 136
- ideation campaigns 109, 132, 138
- ideation phase (in futureproofing process) 23, 25, 135–58
  - campaign and create stage 137–40
  - collect/catalogue/compare stage 137, 140–3
  - customer insight stage 137, 153–5
  - futurecast used in 109
  - monitoring of 240
  - overview 136–7
  - recommendations on 290–4
  - scoring stage 137, 143–53, 291–2
- impact of innovation, effect on likely returns 166–7
- implementation mechanics, impact on launch process 211–12
- implementation stage (in adoption decision process) 33, 36–7
- implementers 255–6
- improv teams 258
- incentive systems 275–6, 293–4
- incremental ‘escape hatch’ 151–2
- incremental innovation(s) 5–6, 11
  - characteristics 12, 79, 90
  - examples 16, 17, 20
  - execution of 194
  - market innovations 71
  - product innovations 69–70
  - reasons to concentrate on 79, 90, 91, 152
  - reward systems for 275–6, 277
  - risk level 5, 12
  - team members’ attitudes to 249, 250, 251, 252
  - team structure for 259
- incubators 221
- individual heroics 77, 86
- individual-level signals, as input to futurecasts 112–13, 140–1
- industry–academic collaborations 189–91, 284
- influence 14, 177–8
  - wasting 261, 262, 263, 264, 265, 303
- influence maps 185–8, 297
- influencing 186–7, 190
- informal patterns 51
- information asymmetry, failure caused by 201
- ING Direct 5, 7, 11, 21, 195
  - Our Virtual Holland experiment 28
- innovation
  - characteristics 45–9
  - definitions 3–8, 288
  - difference from invention 8
  - difference from optimisation 11
  - downside aspects 22–3, 162
  - firm’s perspective 50–7
  - history of in banks 15–22
  - market perspective 41–5
  - meaning of term 3–8, 288
  - misconceptions about 10–15
  - riskiness 11–12, 163–4
- innovation adoption decision process *see* adoption decision process
- innovation antibodies 142
- innovation business plan 79–80
- innovation clusters 141–2, 293
- innovation culture 270, 271
- Innovation Digest* email newsletter 211
- Innovation Festival (AMP Bank) 131–3[case study]
- innovation influence maps 185–8
- innovation infrastructures 87
- innovation leaders
  - collaboration fostered by 236
  - consulting role 237–8
  - delegating role 238
  - feedback organised by 238
  - knowledge diffusion fostered by 236
  - knowledge requirements 235
  - monitoring role 240
  - practices they should adopt 235–40
  - provision of vision by 236–7
  - recognition and rewards provided by 238–9
  - recruitment of 244–5
  - resources provision organised by 239–40
  - as role models 235–6
  - roles 235–40, 303
  - signs of bad leaders 240–4
- innovation leadership
  - McKinsey study 227–8
  - styles 228–35
- Innovation Market 210–11, 223–5[case study], 256, 270
- innovation models and theories 31–66
- innovation pentagram 67–75
  - business models slice 68–9, 74–5, 160
  - channels slice 68, 73–4
  - experiences slice 68, 72–3, 160
  - IT systems and 94, 100, 207
  - markets slice 68, 70–2, 160
  - as means of managing innovation portfolio 69, 160
  - products slice 68, 69–70, 160
  - as threat map 69
  - usefulness 69, 160, 279, 290

- innovation phase (in futureproofing process) 23,  
25–7, 159–91  
futurecast used in 110  
monitoring of 240  
objections raised during 110  
recommendations on 294–7
- innovation portfolio 12, 82, 159, 163–72  
factors affecting 8, 29, 85, 260, 261, 294  
managing 69, 79  
monitoring of 240, 274
- innovation programmes  
funding of 280–3, 289  
recommendation for starting 287–90  
survival times 13, 233, 259, 265, 283, 289,  
290, 297, 303
- innovation strategy 84–5, 288
- innovation tax (funding) model 87, 281–2
- innovation teams 247–65  
basis of team member selection 247, 261,  
265  
continuing involvement after execution phase  
197, 213–14, 299  
different generations within workforce 247–53  
effect of poor performing members 261–5,  
303–4  
Five Capability Model for 75–85  
in Innovation Market 224, 245  
involvement in compromise process 204  
leaders 227–45  
length of survival 13, 233, 259, 265, 283, 289,  
290, 297, 303  
members *see* innovators (team members)  
minimum number of people in 256  
organisational configurations 277–80  
people mix 230, 256, 289–90  
relationships between team members 260–1  
structures 256–9  
team working in 256–61
- innovation trauma 27, 203, 234, 298
- innovativeness  
organisational 52  
personal 38–41, 240–1, 244
- innovators (adopters) 39–40, 42  
in influence maps 185, 187  
value of loss 215  
ways of reaching/contacting 210, 211
- innovators (team members)  
bad/poor performers 261–5, 303–4  
generational differences 247–53  
recruitment of 247, 261, 265, 289–90  
types 253–6
- insider trading, in Innovation Market 224–5
- institutional politics 193–4
- instrumental leadership 231
- integration strategy (for managing IT/innovation  
divide) 102
- intellectual property development 86, 221, 277
- intellectual property protection 190, 283–4
- interactive leadership 231–2
- internal consultants, innovators as 282
- Internet banking 7, 9, 20–1, 61, 73  
bank-built system 182–3  
compared with mobile phone banking 46, 47,  
48  
critical mass point for 131, 141  
execution aspects 195  
forecasts of use 128  
perceptions about 35  
security measures 34, 37, 47, 98, 196  
value of lost customer(s) 215
- interpersonal networks 42–3
- Intuit software 20
- intuitive predictions 125–6
- inventing stage (in Five Capability Model) 76,  
77, 90  
leadership styles 229  
team members and 252, 257
- invention(s)  
difference from innovation(s) 8, 14–15  
execution of 14–15
- investment decisions, customer participation in  
286, 287
- iPhone 5, 48, 54, 213
- IT/innovation divide 99–102  
coopertition strategy 101–2  
integration strategy 102  
reduction strategy 100–1
- IT innovation team 95–6
- IT organisations  
cost cutting in 95  
dry runs of new systems 97  
innovation as sub-function 277  
resource prioritisation in 93–5, 99, 101–2  
standardisation in 97–8
- IT security 98–9
- IT systems  
architecture 97–8  
reasons for change costs 96–7
- ‘ivory tower’ innovation teams 257
- jack-of-all-trades people 216
- JavaStation 203
- keyboard vs mouse practices 56–7
- Killian, Annalie 131, 132
- Kiva.org 71–2, 154
- knowledge diffusion 236, 283
- knowledge stage (in adoption decision process)  
33–4
- laggards 39, 41, 42  
value of loss 215

- late majority adopters 39, 40–1  
value of loss 215
- launch activities 196–7, 208–13  
refining to optimise adoption decision process 210–13
- leaders see innovation leaders
- leadership styles 228–35  
charismatic 229–30  
ideal style 234–5  
instrumental 231  
interactive 231–2  
strategic 233–4
- legacy system costs 22, 28, 94
- lifetime-based mortgages 222
- ‘lone rangers’ 264
- low-effort innovations 169  
example 171
- low-return innovations 166–7
- M-Pesa mobile phone-based payment service 70–1, 74, 171, 184
- McKinsey studies 227–8, 272–3
- managing stage (in Five Capability Model) 76, 79–80, 90–1, 297  
leadership styles 230, 231  
team members and 252
- market-based innovation 68, 70–2, 160
- market intelligence 184–5
- market perspective on innovation 41–5
- market research 153–4, 206, 293
- market signals, as input to futurecasts 113, 222–3
- mass marketing 210
- matching phase (in adoption decision process) 53, 54–5
- measurement of innovation results 13, 271–4
- mechanisation 4–5, 17
- medium-effort innovations 169–70  
example 171
- medium-return innovations 167
- meeting room booking system 177
- mega-hits 13–14
- metrics for IT 96
- metrics (of innovation activities) 13, 271–4, 289  
in Bank of America 86, 272
- MICR (Magnetic Ink Character Reading) 4
- microfinance 18–19, 71  
in combination with peer-to-peer lending 71, 72
- Microsoft 54, 261
- mistrust of subordinates 242
- MIT, collaboration with Bank of America 188
- mobile phone banking 21, 36, 45, 61, 181  
compared with Internet banking 46, 47, 48
- effect of innovation attributes on adoption 46–9  
implementation issues 199, 254–5  
UK market reaction 223, 254
- mobile phone-based contactless payment system 22, 145–6, 147, 168, 169, 171
- mobile phone-based payment service 70–1, 74, 171–2
- mobile phone top-ups 5–6, 68
- mobile-phone-as-wallet 22, 70, 145, 168
- models and theories 31–66
- Monilink 181
- Monte Carlo analysis technique 130
- mortgages  
lifetime-based 222  
refinancing of 35–6
- Moss, Frank 189
- multiple innovation teams 277–8
- National Australia Bank 36–7, 47, 98
- net benefit of innovation 174
- Netbank 7
- network externalities 162, 184
- new-product revenue, as innovation metric 272, 274
- new things  
building 198–208, 299  
innovation and 11
- NFC (near field communication) systems 70
- NFC-based mobile phone-based payments  
example  
effort requirements 171  
hardware considerations 253–4  
priority score 171  
process considerations 219  
return calculations 169  
scoring 145–6, 147
- Nokia, Venture Organisation (NVO) 221, 277
- non-profit organisations, transparency  
requirement 287
- normal distribution 150  
ideas scoring 150–1  
innovation adopters 39
- Northern Rock 75
- number of product and patents, as innovation metric 86, 272
- observability, speed of innovation adoption  
affected by 45, 47–8
- online address change [fictional] example  
effort requirements 171  
priority score 171  
return calculations 169  
scoring 145, 147
- online auctions 64

- online banking 7, 9, 20–1  
     broadening of scope 203  
     forecasts of use 128  
     perceptions about 35  
     security measures 34, 37, 47, 98  
 online payment systems 9–10, 21  
 open innovation 181–2, 221–2, 278  
 operating cost-only funding model 281  
 opinion leaders 40, 43  
 opinion polls 128  
 optimisation  
     difference from innovation 11  
     in futureproofing process 26, 29  
 organisational hierarchy, innovation and 277–80  
 organisational slack, effect on innovation 52  
 organisational will 178  
     autonomous innovations affected by 103, 178  
 organisations, characteristics 50–2  
 output metrics 86, 271–3, 274  
 oversight of innovation programmes 88, 156, 196, 205, 268–71, 279, 289  
 owning and operating innovations 197, 213–14
- paired friends, as innovators 261  
 panel research 153  
 Parker, Janet 229  
 ‘parking lots’ for ideas 150, 151  
 patents 86, 272, 274, 277, 283  
 PayPal 9–10, 21, 63–5[case study], 184, 220  
 peer review of innovation team’s activities 238  
 peer-to-peer (P2P) lending 7–8, 24, 68–9  
     as alternative to bank lending 116–17  
     banks’ involvement 117–18, 287  
     in combination with microfinance 71, 72  
     effort requirements 170  
     expected returns 167–8  
     failure of experiments [futurecast] 115–16  
     futurecasts about 114–19, 301  
     priority score 171  
 pentagram *see* innovation pentagram  
 people aspects of implementing breakthrough innovations 215–17  
 perfecter-implementers 256, 264, 304  
 perfectors 255  
 performance gap 53  
 person-to-person payments 9–10  
 personal computers, workplace restrictions 271  
 personal finance management websites 72, 73, 162, 184–5  
 personal innovativeness 38–41  
     of leaders 240–1, 244  
     of team members 247, 303  
 persuasion stage (in adoption decision process) 33, 34–5
- phase-gate processes 24  
 pilots 206–8, 299  
     as innovation metric 273–4  
     learning dimensions 207  
 play-not-to-lose (PN2L) innovation strategy 84–5, 170, 270, 288  
     funding for 282  
     innovation types 85, 294  
     metrics for 273, 289  
     rewards systems for 275, 293  
     *see also* incremental innovations  
 play-to-win (P2W) innovation strategy 84, 170, 233, 270, 288  
     adoption by Casa Navarra 285, 287  
     funding for 282–3  
     innovation types 84, 294  
     metrics for 271, 289  
     rewards systems for 275, 293  
 pneumatic delivery systems 111  
 political forces (in scenario planning) 123  
 politician, as innovation leader 243–4  
 Pollock, Avi 156, 157  
 portfolio approach to innovation investments 12, 82, 159, 163, 294  
 post-launch operations 213–22  
 prediction markets 112, 128–9, 224  
 prediction methods 112, 125–31  
 predictions  
     added to futurecasts 130–1, 302  
     meaning of term 112, 114  
     peer-to-peer (P2P) lending 130–1  
 prioritisation of innovations 170, 171  
 process-based innovation metrics 273, 274  
 process considerations, in implementation of breakthrough innovations 219  
 processes and controls 267–84  
 product innovations 68, 69–70, 160  
 project teams (for implementation phase) 198  
     factors controlled by 198  
 proofs of concept 178–80  
 Prosper.com (P2P site) 131  
 prototypes 178–80, 206, 296  
 prudence 1  
 ‘puppy drowning’ process 171–2, 193, 221, 228, 295, 296  
     effect on team relationships 260, 261  
     idea perfectors’ attitudes 255  
     as performance measure 274  
     risk avoiders’ attitudes 241
- QuantComm 189  
 quantum computing 254  
 question-set methodology (for scoring of ideas) 143, 144–8  
 Quicken software 20

- recognition for effort (of innovation team)  
238–9, 275
- recommendations (for starting new innovation programme) 285–304
- recruitment, innovation team members 247, 261, 265, 289–90
- redefining/restructuring phase (in adoption decision process) 53, 55
- reduction strategy (for managing IT/innovation divide) 100–1
- reinvention of innovations 37
- relative advantage, speed of innovation adoption affected by 45, 46
- reliability 217–18
- request for information (RFI) 54
- request for proposal (RFP) 55
- requirements document 198–200, 298
- resources provision (for innovation team) 239–40, 280
- retail financial services 19
- retail sector, online banking broadening into 203
- return on investment, as innovation success measure 271–2
- returns on innovations  
calculating 164–8  
timing considerations 167, 280–1
- revolutionary innovation(s) 5, 69, 194–5  
costs 14  
examples 16, 18, 19, 195  
execution of 195–6  
reward systems for 276, 277  
risk level 12, 14  
support required 14  
team members' attitudes 251
- reward systems 139–40, 224, 275–6, 293–4
- risk avoiders 240–1
- risk and security 98–9
- risky nature of innovations 11–12, 163–4
- Rogers, Everett M. 38–9
- Rogers curve 39
- role confusion, failure affected by 201–2
- roles, organisational 51, 52
- routinising phase (in adoption decision process) 53, 56–7
- Royal Bank of Canada (RBC) 137, 156–7  
Innovation Council 156, 157, 268–9  
Next Great Innovator Challenge 156–7[case study]
- rules and regulations 51, 55
- S-curves 41, 42  
effect of innovation attributes on 45–6, 49  
in execution phase 212, 223  
in Five Capability Model 76  
in futurecasting phase 128  
in ideation phase 141  
in predictions 131
- scalability 218–19
- scattergun approach to marketing 210
- scenario planning 24, 81  
books on 119  
futurecasts constructing using 119–25  
step 1: determine focal point 119–20  
step 2: examine local environment 120  
step 3: examine driving forces 120, 121–3  
step 4: ranking of driving forces 120  
step 4: scenario mechanics 120, 124  
step 5: creation of futurecasts/stories 123, 125  
step 6: flesh out stories with predictions 125
- Schumacher, Hans 188
- Schumpeter, Joseph 8, 14
- Schwarz, Peter 119, 123
- scope creep 202–3
- scoring of ideas 143–53, 291–2  
by evaluator networks 149–50, 292  
deadpools 151  
incremental escape hatch 151–2  
more-advanced scoring instrument 146–8  
parking lots 151  
setting score ranges for idea destination 150–1, 292–3  
simple scoring instrument 144–6  
weightings 148–9  
wisdom-of-crowds approach 152–3
- screen-scraping application 15, 21, 161
- Sears, Roebuck & Co. 19
- securitisation of loans 74–5
- Security First Network Bank 20–1, 22, 183
- security measures in Internet banking 34, 37, 47, 98, 196, 217
- security and risk 98–9
- security strategy 217
- seed budget/capital 87, 283, 289
- self-service 18, 19, 47, 61, 73–4  
forecasts of use 127–8
- selling of innovations 160, 185–8
- shared innovation service 278
- Shepherd-Barron, John 227
- 'Should we?' question 160–1, 295  
requirements document and 199  
tools for 173–6
- Shreero, Jim 155
- silo-based innovation teams 3, 277–8, 279, 290
- Six Sigma 86
- smartcards 20, 128
- SNS Bank, self-service kiosk cushions 74
- social forces (in scenario planning) 121
- social media sites 102, 104–6[case study], 114, 154, 157  
internal adoption of 57–9[case study], 236

- social networks 42–3, 52, 57  
 P2P lending on 116–17  
 restriction on use 271  
 speculative nature of innovation 11–12  
 staff suggestion schemes 138–40, 277  
 stage-gate processes 23–4, 25, 107, 109, 300  
 Stanford University 4, 181, 215  
 start-up companies, breakthrough operations  
 similar to 216  
 statistical prediction methods 129–30, 302  
 STEEP analysis (in scenario planning) 120,  
 121–3  
 steering committees 196, 205  
 ‘stories’ for future thinking 81, 109, 123, 125,  
 301–2  
 in AMP’s Innovation Festival 132  
 strategic leadership 233–4, 278  
 strategic planning process, futurecasts as part of  
 82, 112, 214, 234, 301  
 strategy teams, innovation leaders recruited from  
 244  
 suggestion schemes 138–40, 277  
 anonymous approach 139  
 ‘spray and pray’ approach 138  
 Sun Microsystems 203  
 support during implementation process 212  
 ‘survival of the fittest’ approach 23  
 sustaining innovation 6–7, 22  
 contrasted with disruptive innovation 6–7, 60,  
 61, 230  
 in Five Capability Model 76  
 product innovations 69  
 switching services (moving to new product) 212
- talkers (bad innovator type) 263  
 team working 256–61  
 teaming 251  
 teams *see* innovation teams  
 technological forces (in scenario planning)  
 121–2  
 technological issues, high-level designs and 180  
 technology  
 in implementation of breakthrough  
 innovations 217–19  
 innovation and 93–102  
 technology-based innovation teams 279, 290  
 telegraph (messaging system) 16  
 telephone banking 19–20, 61  
 testing  
 of end-product 205–6, 208  
 of IT changes 97
- Threadless t-shirt company 156  
 threat map, innovation pentagram as 69  
 top-down innovation programmes 83, 233,  
 278–9  
 Toyota 11, 15  
 traditionalists  
 characteristics 248–9, 248  
 as leaders 242–3  
 in main workforce 271  
 as team members 249, 252, 253, 258, 259  
 transparency tyranny 114  
 trends 108  
 recurring ideas as sign of 110, 140  
 in scenario planning 120  
 trialability, speed of innovation adoption affected  
 by 45, 48–9  
 trials, effect on adoption 36, 206, 211  
 Twain, Mark 129
- Vancity credit union, ChangeEverything project  
 104–6[case study]  
 venture capital firms 12  
 venturing stage (in Five Capability Model) 76,  
 82–3, 91, 221  
 leadership styles 230, 231, 233, 234  
 team members and 253, 257  
 Videotex 19–20  
 viral marketing 64, 209–10  
 virtual banks 5, 7, 20–1  
 virtual stock exchange for ideas 224  
 visible face of innovation 283–4  
 vision, provided by innovation leader 236–7
- WAP (Wireless Application Protocol)  
 254–5  
 Web 2.0-based ventures 57, 73, 189, 208  
 Wells Fargo 57, 72  
 ‘When?’ question 161–2, 295  
 requirements document and 199–200  
 tools for 182–5  
 wisdom-of-crowds prediction methods 112,  
 128–9  
 wisdom-of-crowds scoring of ideas 152–3,  
 155  
 word-of-mouth effects 37–8  
 workshops on innovation 89, 262
- Yanus, Muhammad 18–19, 71, 72  
 Yodlee Corporation 15, 21  
 Zopa 7–8, 68, 74, 116, 167