Absorptive capacity, 46  
abstract-driven search/levels, 47  
academic entrepreneurs, 146  
academic incubator, 145  
“agile” approach, 8  
agile innovation model, 130  
agile software development, 191  
Air BnB, 180, 181  
airline business model, 182  
Alternative Investment Market (AIM), 80  
Amazon, 14, 161, 178, 180, 185  
angel investor, 153  
Angry Birds, 180  
Apple, 2, 84, 123, 142  
attractor’s advantage, 166  
attribute gap, 135  
audit frameworks, 193  
authoritative decision-making, 133  
Auto-disable syringes (ADS), 143  
Autonomy software company, 144  
B  
Babenzien, Ryan, 2  
bandwagons, 134, 135  
Bass model, 133–134  
Bayesian probability, 61  
benchmarking, 47  
competitor, 52  
cross-industry, 53  
Bezos, Jeff, 14, 180  
Blakely, Sarah, 14  
Blue Ocean strategy, 47, 161  
Boston’s Route 128, 145  
brainstorming  
definition, 32  
limits, 34  
postponing judgment, 33  
power of, 33  
Branson, Richard, 5, 14, 181  
bricologe, 9, 24  
Brin, Sergey, 2, 14  
Buscemi, Jon, 2  
business angels, 78  
business models (BM)  
airline business model, 182  
 basic building blocks, 174  
 building the model, 175–178  
 Caterpillar, 183  
 “Connect and Develop” model, 183  
 cost structure, 178  
 creating and delivering, 177  
 examples, 172, 174–175  
 generic business models, 173–174  
 innovation, 42, 178–185  
 internet-enabled BM, 183  
 in music industry, 182  
 need for, 172–173  
 Niche airlines, 182  
 position innovation, 182  
 problem of letting go past, 184  
 process innovations, 182  
 Procter and Gamble, 183  
 Rolls-Royce, 183  
 Skype, disruptive business model, 181  
 strategies, 184  
 structured process, 174  
 sustainability and resilience, 178  
 target market, 176  
 value capture, 177–178  
 value proposition, 172, 175–176  
 business plan  
 abstract/ambiguous goals, 50  
 criteria, 50, 51  
 critical risks and uncertainty (see critical risks and uncertainty)  
 decision-making, 50  
 formal business plan sections, 50  
 formal statement, 50  
 fuzzy front end, 50, 51  
 market opportunities and competition (see market opportunities and competition assessment)  
 project costs, resources, and value evaluation  
 financial methods, 63–65  
 qualitative methods, 65–66  
 trade-offs/balancing acts  
 degree of formalization, 50–51  
 gentle/harsh screening of ideas, 51  
 innovation vs. resource efficiency, 51  
 product definition flexibility vs. product features, 51  
 uncertainty reduction and equivocality, 51  
 trade-offs identification, 50  
 business process reengineering (BPR), 134  
 business structure, new venture creation, 147  
 capability  
 co-option alliance, 83  
 joint ventures, 83–84  
 key attributes, 71–72  
 learning and building  
 innovative organization, 192–193  
 management, 193  
 opportunity recognition, 191  
 resources finding, 191  
 value capture, 192  
 venture development, 192  
 license, 82–83  
 mapping attributes, 72–75  
 outsourcing, 82  
 strategic alliance, 84–85  
 strategies, 81–82  
 sustaining, protecting, and exploiting, 75–76  
 valued attributes, 72  
 Caterpillar business models, 183  
 Celltech, 151  
 Cisco and Intel, 166  
 clear product definition, 123  
 climate  
 change and involvement, 102  
 conflicts, 103  
 debate, 103  
 definition, 100  
 freedom, 104  
 innovation, 101  
 risk-taking, 103  
 support and space, 103  
 trust and openness dimension, 101–102  
 clusters, 111  
 co-creation, 113  
 cognitive bias, 62  
 collective decision-making, 133  
 collective efficiency, 111–112  
 communities of practice, 110–111  
 compatibility, 136  
 competency mapping, 46  
 competitive analysis, 128  
 competitiveness profiling, 46, 47  
 competitor benchmarking, 52  
 complementary assets, 166  
 complexity, 136  
 concept generation, 121, 128–129  
 confidential ideas, 152, 153  
 “Connect and Develop” business model, 183  
 continuous product development, 123  
 copyright, 149  
 Costas Markides, London Business School, 185  
 cost–benefit approach, 61  
 cost structure, 178  
 creative destruction, 4  
 creative environment  
 creative climate, 37  
 enabling factors, 36  
 flow of ideas management, 35  
 kaizen, 35  
 killer phrases, 36  
 physical environment, 35, 36  
 process innovation, 35  
 time and permission to play, 35, 36  
 training and skills development, 37  
 creative problem-solving (CPS) model, 31  
 credibility, 153  
 critical junctures, 153  
 critical risks and uncertainty  
 perceptions, 62  
 probabilistic estimates  
 combined probability, 60  
 commercial success, 60  
 criteria project screening and selection, 58, 59  
 economic and cost–benefit approaches, 61  
 Espresso Mushroom Company, 61  
 investment outcomes, 59–60  
 learning from failure, 60  
 managers’ perceptions of sources of uncertainty, 58, 59  
 project appraisal, 60  
 project evaluation, 60–61  
 technical success of projects, 60  
 cross-industry benchmarking, 53  
 crowd-funding, 79
index

crowdsourcing, 47, 115
cultural capability, 73–75
culture, 101
customer-developers, 128

D
David Kolb's learning cycle, 190–191
DCF analysis see discounted cash flow (DCF) analysis
decision-making, innovation adoption, 133
Delphi methods, 47
demand-side factors, innovation adoption, 133
demonstrations of innovations, 137
design-build-test cycle, 130
design for manufacture (DFM), 130
design for X, 130
design registration, 150
design rights, 150
development funnel, 119–120
diffusion, innovations adoption
bandwagons, 134, 135
Bass model, 133–134
compatibility, 136
time dimension, 133
trialability, 136–137
digital tools, product and service design, 130
discounted cash flow (DCF) analysis, 64–65
divergent and convergent thinking, 25
dynamic capabilities, 71
Dyson, James, 2, 14, 25, 26, 88

e
Eastville Community Shop, 16
EasyJet, 2
Edison, Thomas, 2
Edwards, Jamal, 142
effectuation, 9, 24
ego entrepreneurs, 142
terprise incubators, 144–147
terprise types, novelty and scale, 142
terprise academics, 146
terprise commitment, 153
terprise creativity
associations, 24–25
blocks, 29
bricolage, 24
challenge, 25–26
creative environment
creative climate, 37
enabling factors, 36
flow of ideas management, 35
kaizen, 35
killer phrases, 36
physical environment, 35, 36
process innovation, 35
time and permission to play, 35, 36
training and skills development, 37
"deep smarts," 27
definition, 24
divergence and convergence cycles, 28
divergent and convergent thinking, 25, 26
domain specificity," 27
effectuation, 24
enabling and enhancing, 29–30
experience and expertise, 27
flash of inspiration, 28
group creativity, 27
group level creativity
advantages and disadvantages, 32
brainstorming, 32–34
vs. conflict, 34
group setting and diversity, 33
and individual creativity, 33
judgment phase, 33
newborn insights, 33
"nominal group" approaches, 33
online groups and communities, 34
social pressures, 32
incremental and radical, 25
incubation stage, 28
introversion and extraversion, 26
left and right brain thinking, 25
mental "comfort zone," 26
natural ability, 29
pattern recognition, 25
personal thinking skills
innovator's skills, 6
definition, 2
examples, 2
failure breeds success, 6
good ideas, 5
job description, 6
nAch, 5
new ventures, 5
operating process, 7–8
"social identity" theory, 5
entrepreneur's story, 9–11
innovation
in action, 4
criminal fraternity, 5
definition, 2
growth, 4
social and commercial value, 3–5
survival, 4
threats and opportunities driving change, 4
innovator's skills, 24
learning
agile software development, 191
audit frameworks, 193
David Kolb's learning cycle, 190–191
innovation strategy, 188–189
management, 193, 194
opportunity recognition, 191
resources finding, 191
strategy, 192–193
value capture, 192
value of failure, 189–190
venture development, 192
local organizations, 2
passion to change, 14
personal creativity, 89
public-sector organizations, 3
real-world entrepreneurship, 8–9
entrepreneur's search toolkit
absorptive capacity, 46
active user engagement, 46
concept testing, 46
customization, 46
hidden/latent needs, 46
mobilizing minds, 47
open search, 46
recombinant innovation, 47
segmentation, 46
size, 46
strategic fit, 46
users as innovators, 47
epidemic S-curve model, 133
Espresso Mushroom Company, 61
ethical brands, 95
ethnography, 46
European Internet Unicorns, 159, 160
everolutionary models of diffusion, 136
excludability, 166
expected utility theory, 61
expedientary marketing, 129
"explore/focus" approach, 8

F
Facebook, 2, 76
fast-fashion, 70
financial methods
DCF analysis, 64–65
NPV, 63–64
project appraisal, 63
sensitivity analysis, 63, 65
spreadsheet analysis, 63
First-Mover, 161
fishbone analysis, 46
5 whys, 46
“Five Whys and a How” approach, 30
focus groups, 128
Ford, Henry, 2
“4Ps” innovation space, 41, 43, 44, 179
frugal innovation, 46
Fry, Elizabeth, 14
functional capability, 73–75
fuzzy front end, 121

G
Gates, Bill, 14, 16, 21, 27, 142
gazelle (extremely fast-growing firms), 158, 159, 161
Genentech, plasminogen activator t-PA, 149
Georgiou, Alex, 2
Georgiou, Megan, 2
Global Entrepreneurship Monitor (GEM), 91–91, 144
going market rate, 151
Google, 2, 14, 100, 132, 160, 178, 190
Grassl, Megan, 2
Greenfield, 166
innovation
advantages and disadvantages, 32
brainstorming, 32–34
vs. conflict, 34
innovator's search toolkit
absorptive capacity, 46
active user engagement, 46
concept testing, 46
customization, 46
hidden/latent needs, 46
mobilizing minds, 47
open search, 46
recombinant innovation, 47
segmentation, 46
size, 46
strategic fit, 46
users as innovators, 47
epidemic S-curve model, 133
Espresso Mushroom Company, 61
ethical brands, 95
ethnography, 46
European Internet Unicorns, 159, 160
revolutionary models of diffusion, 136
excludability, 166
expected utility theory, 61
expedientary marketing, 129
"explore/focus" approach, 8

First-Mover, 161
fishbone analysis, 46
5 whys, 46
“Five Whys and a How” approach, 30
focus groups, 128
Ford, Henry, 2
“4Ps” innovation space, 41, 43, 44, 179
frugal innovation, 46
Fry, Elizabeth, 14
functional capability, 73–75
fuzzy front end, 121

Gates, Bill, 14, 16, 21, 27, 142
gazelle (extremely fast-growing firms), 158, 159, 161
Genentech, plasminogen activator t-PA, 149
Georgiou, Alex, 2
Georgiou, Robbie, 2
Global Entrepreneurship Monitor (GEM), 91–91, 144
going market rate, 151
Google, 2, 14, 100, 132, 160, 178, 190
Grassl, Megan, 2
Greenfield, 166
innovation
advantages and disadvantages, 32
brainstorming, 32–34
vs. conflict, 34
innovator's search toolkit
absorptive capacity, 46
active user engagement, 46
concept testing, 46
customization, 46
hidden/latent needs, 46
mobilizing minds, 47
open search, 46
recombinant innovation, 47
segmentation, 46
size, 46
strategic fit, 46
users as innovators, 47
epidemic S-curve model, 133
Espresso Mushroom Company, 61
ethical brands, 95
ethnography, 46
European Internet Unicorns, 159, 160
revolutionary models of diffusion, 136
excludability, 166
expected utility theory, 61
expedientary marketing, 129
"explore/focus" approach, 8
innovation
industry experts/consultants, 128–129
individual decision-making, 133
incubator organization, 141, 144
incremental creativity, 25
IDEO case study, 121
ideas factory, 166
HTC, 14
hidden innovation, 125
hanging enterprise
Haji-Iannou, Stelios, 2
H
idea factory, 166
IDEO case study, 121
incremental creativity, 25
incubator organization, 141, 144
individual decision-making, 133
industry experts/consultants, 128–129
information-processing skills, 93
innovation
in action, 4
agile innovation model, 130
attribute gap, 135
“audit” frameworks, 193–194
business models (BM), 42
definition, 185
“4Ps” innovation space, 179
internet-enabled business model, 183
in music industry, 182
pivoting the venture, 179–180
position innovation, 182
process innovations, 182
strategies, 184
sustainability, 180, 181
challenges and conditions, 163
climate, 101
contests, 47
criminal fraternity, 5
definition, 2, 161
degree and type, small firm performance, 163
diffusion, 132–138
existing skills and practices, 136
failure reasons, 138
growth, 4
hidden, 125
leadership, 94–95
marketplaces, 47
motives, 137
network externalities, 136
new product/service development
process, 123
open innovation, 115
opportunities
business model, 42
compass, 41
components to systems, 45
dimensions of, 45
4Ps model, 41, 43, 44
incremental innovation, 43–44
knowledge push vs. need pull model, 40
not-for-profit and public-sector organizations, 43
paradigm innovation, 42
position innovation, 41–42
process innovation, 41
product innovation, 41
public-sector innovation, 43
radical innovation, 44
sources of, 40, 41
space, 46
space mapping, 41
primary attribute, 135
private demonstrations, 137
public demonstrations, 137
R&D expenditure, 163
recombinant, 47
safety credibility, 137
Samsung smartphone, 123
secondary attribute, 135
significant misalignments, 136
SME’s innovative activities, 162–163
social (see social innovation)
social and commercial value, 3–5
spaghetti model, 108–109
Stickly success, 26
survival, 4
sustainability, 18–19
threats and opportunities driving change, 4
user buy-in, 137
value and norms, 136
venture capital role, 168
vicarious learning, 137
innovators
“discovery” skill, 24
high/low innovators, 126, 127
smart, 189
users, 17, 47
Instagram, 79, 180
intellectual property (IP)
commercialization, 148
copyright, 149
design rights, 150
Lambert Review of Business, 148
licensing, 149, 151–152
patents, 148–149
intellectual property rights (IPR), 148, 149, 151, 152
Intelligent Energy Ltd, 165
internet-enabled business model innovation, 183
iterative process, project selection, 129
J
Jobs, Steve, 2, 26, 142
joint ventures, 83–84
K
kaizen creativity, 35
Kano method, 46
killer phrases, 36
Kirton Adapter-Innovator (KAI) scale, 89
knowledge economy, 112
Knowles, Beyoncé, 5, 14
Koska, Marc, 142, 143
L
latent needs analysis, 128
leader–member exchange (LMX), 94
leadership
creative problem-solving, 93–94
generic traits, 93
information-processing skills, 93–94
innovation, 94–95
LMX, 94
opportunity and planning, 95
research context, 94
SST, 94
transformational leadership, 94
upper echelons theory, 93
lead users, 46, 47, 128
lean start-up, 8, 130, 190
left and right brain thinking, 25
Lego, 114
Liberty Global, 34
licensing
benefits, 151
costs and risks, 152
pricing methods, 151
vs. spin-outs, 148
strategy, 151
Lifeline Energy, 15
lifestyle entrepreneurs, 142, 158
Limited Liability Partnership (LLP), 147
Linux community, 150
Linux software, 150–151
Local Motors, 115
“logical” processing, 25
loss aversion, 62
Lynch, Mike, 144
M
management challenges, new venture creation
entrepreneurial commitment, 153
first client/sale, 153
NDA, 153–154
opportunity recognition and assessment, 153
patent, 154
venture credibility, 153
market experimentation, 129
market knowledge, 123
market opportunities and competition assessment
future forecasting
appropriate method selection, 52, 53
common methods, 52
cross-industry benchmarking, 53
econometric models, 53
exploratory forecasting, 53
regression analysis, 53
reliability, 53
types, uses, and limitations, 52
market segmentation
business markets, 55–56
customer markets, 54–55
potential market to assess demand, 54
scenario development, 52
communicable, 57
consistent, 56
differentiated, 57
entrepreneurial “pivot,” 57–58
explorative perspective, 56
Internet scenarios at Cisco, 57
normative perspective, 56
plausible, 56
practical to support action, 57
probability assessment, 57
for start-up entrepreneurs, 57
transparent, 57
market-pull strategy, 121
market segmentation, 46, 52
business markets, 55–56