Index

absence, leave of absence schemes (N) 73

academic spin-offs (ASOs) 5, 6, 28, 103, 142–53
Belgian case study 143
knowhow/skills 142–53, 157–68
team member entry 142–53
venture capital acquisition 157–68
see also universities

accounting knowhow 162
adoption
early 30
rate 30

advice 7
age factors 17–18, 47, 50, 52, 54, 161–5
agency 175
agriculture 42, 50, 52, 54, 56
angels, business see funding
anti-trust 33

Asia 95
see also Singapore; UK, ethnic workforce; USA, ethnic workforce

ASOs (academic spin-offs) see universities

bank loans
immigrants, access to 122

bankruptcy 30, 33

barriers
to entry 15
to uptake of commercialization of research (universities) 61
Bayh-Dole Act see USA, legislation

Beiarin jazz festival see jazz

Belgian ASO/team development case study 143

biological model 27
see also science; technology

biotech industry 161, 163

Boards (ASOs) 6, 143–53, 162–8
see also education; knowhow; management; skills

Boston see USA
‘boundary’ see Katz and Gartner Framework

business
angels see funding
development 101
plan 51
services sector 50, 52, 54

Canada 75
‘cognitive diversity’ 103, 144, 158, 161–6
see also education; knowhow; skills

communications
problems 179
sector 52
team 179, 180

‘community’ defined 81
see also CVs

companies
disclosure and reporting requirements 33

lifestyle firms 188
limited liability 193
‘mother companies’ 95–8, 102
SMEs 188, 189
sole traders 193

competition law see anti-trust

conflict 5, 6, 7, 128–37
‘affective’ 130, 131, 135, 176, 178–9, 180, 183
cognitive 176–8, 180, 183
intergroup 176, 180, 181, 184
intragroup 176, 180, 181, 184

‘process’ 130, 131, 134, 135, 176, 178, 180, 183

‘proportional conflict composition’ 132

‘task’ 130, 131, 132, 133, 135, 180

VC/entrepreneur 175–85

construction industry 52

consumer services sector 50, 52, 54
‘context’ 2, 2–3, 24–36
  input-output model 3, 24–5, 35
  Timmons model 23
  see also incubator
control aversion 190, 191, 196, 200
costs see transaction costs
cultural
  Council (Norwegian) 88
  festivals 80, 83–90
CVs (community ventures) 79–90
  business networks 80
  cultural events 80, 83–90
  job creation organizations 80
  museums 80
  sports events 80, 87
decision-makers 127–38
  see also Board; directors;
    employment; management;
    TMTs
demographics 13–22
directors 142–53
  see also Board; employment;
    management; TMTs
disputes 127–38
  see also conflict
economics 1, 13–22
  Kirzner 114, 117
ecosystem, entrepreneurial 26–8
education 17, 52, 163, 165
  see also education; knowhow; skills;
    universities
emergence 2, 3–5
emotions see conflict, ‘affective’
employment 33
  job creation 20, 33, 80
  knowhow 96
  immigrants 120
  team member entry, academic
    spin-offs 142–53
  see also education; skills;
    universities
levels of unemployment (Norway) 42
prospective/non-prospective
  employers 188–200
shredding workforce 96
women 13, 14
energy sector 163
  see also gas; oil
equity gap 158
  see also funding, equity
ethnic diversity 13, 14, 110
  see also immigrants; UK, ethnic
    workforce; USA, ethnic
    workforce
Europe
  Eastern 95
  Norway, not in EU 42
  ‘exchange’ see Katz and Gartner
    Framework
exports 14, 15, 20
  petroleum 14
facilities/equipment purchase/lease 52, 54, 101
  see also property
failure 27, 29–30, 50, 56, 93
  fear of 20, 22
  market failure argument 94–5, 102
family firms 151
finance 196, 197
  access
    by immigrants 122
    to advice 101
    knowhow 162
    prior 159–60
    risk 190, 191
  see also funding
firms see companies
fishing/fisheries 42, 95
Index

foreign language issues 115
see also immigrants
forestry 42
FORNY 33, 65–7, 70, 71, 72, 147, 163
France 26
funding 51, 55, 157–68, 188–200
equity 7, 33, 189, 192, 197, 198, 199
external 7, 159, 163
debt 7, 189, 192, 198, 199
equity 7, 33, 189, 192, 197, 198, 199
see also venture capital
gap 158, 159
government 33, 66, 67–9, 71, 97
development grants 33
‘proof-of-concept’ funds 73
see also FORNY; industry incubators
grants
development 33
National Science Foundation 75
loans 33, 69, 117, 122, 193, 195, 197, 198, 200
‘muddling through approach’ 189,
199
‘pecking order approach’ 189
private
business angels 28, 159
industry 163, 164, 166
seed 69, 71, 72, 159, 160,
163–7
VC funds 28, 64–5, 71, 72, 158,
159, 163–8
public see government
risk capital 27, 28, 32–3, 158, 168
self- 32, 50
sweat equity 32
see also ‘soft support’
gas industry 42, 95, 163
GEM see entrepreneurship, Global E.
Monitor
gender 16, 50, 52, 54, 110, 161
see also minority entrepreneurs;
women
geography 13–22
GGM 3
grants see funding
‘Groove Valley’, The (TGV) 85
‘growth’ 2, 6–7
health 75
sector 163
Hispanic community 118–19
see also immigrants; UK, ethnic
workforce; USA, ethnic
workforce
human resources 158
turnover of personnel 142–53
see also directors; employment;
knowhow; management; skills;
‘top management teams’
immigrants 5, 109–23
access to finance 122
income 18
incubator programme 3, 4, 33, 34–6,
93–104
National Business Incubation
Association (NBIA) 35
Industrial and Regional Development Fund
(SND) 43
Corporation of Norway (SIVA) 33,
69, 96, 99
industry incubators see incubator
programme
Innovation Norway 33
input-output model see context
insolvency 30
intellectual property see IP
‘intentionality’ see Katz and Gartner
Framework
intermediaries 27, 28, 31–2
intermediators 70, 72, 73, 74
see also TTOs
investors 32–3, 64–5, 159, 160, 165,
166, 167, 190
initiating relationships with, 190, 191
relationship with VCs 160
see also funding
IP 27, 29
due diligence 160
ownership by universities 66, 70, 71,
74
jazz camp 80, 85
Katz and Gartner (1988) Framework
41–58
‘boundary’ 42, 44, 48, 49, 51, 53, 55,
56, 57
‘exchange’ 42, 44–5, 48, 49, 51, 52, 53, 55, 56, 57
‘intentionality’ 41, 43, 48, 51, 54, 56, 57
‘resources’ 41, 44, 48, 51, 54, 56, 57
Kirzner 114, 117
knowhow (‘cognitive diversity’) 21, 34, 103, 144, 158, 161–6
see also education; IP; skills; universities
knowledge
gaps 63
management 103
market 30, 98
scientific 73
spillovers 94, 95
transfer 63, 98, 101, 103
see also IP; knowhow
language issues 115
see also ethnic diversity; immigrants
law
knowhow 162
see also legal; USA, legislation
leave
maternity 17
of absence schemes, Norwegian universities 73
legal
advice 101
entity (formation) 49, 50, 51, 53, 55, 192
status, immigrants 111, 118
see also USA, legislation
legitimacy-building 41, 79–90
external environment 87–8, 89
internal environment 87, 88
management 158
international diversity helpful? 162
team member entry, academic spin-offs 142–53
top management teams’ (TMTs) 142–53
turnover of personnel 142–53
see also decision-makers; TMTs
manufacturing 34, 52, 54, 56
market
development 101
knowledge 30
process 114
research 51, 53
maritime sector 163
marketing 1, 53, 162
maternity leave 17
maths 1
medical
research 29
sector 163
see also biotech; science; technology
Mexico 26
mining 50, 52, 54
minority entrepreneurs 110
see also ethnic diversity; immigrants
monitoring/mentoring 101
see also ‘soft support’
‘mother companies’ 95–8, 102
music festivals (N) 4, 80–90
‘newness’ 2, 5–6
non-profit community ventures 79–90
see also CVs
Norway
Beiarn jazz festival see jazz
FONY grants
see FONY
Industrial
and Regional Development Fund (SND) 43
Corporation of Norway (SIVA) 33, 69, 96, 99
Innovation Norway 33
leave of absence schemes 73
Norwegian Cultural Council 88
not in EU 42
number of new business start ups 43, 56
R&D contracts (IFU/OFU) 69
Research Council 33
rural communities 90
depopulation 90
music festivals 80–90
rejuvenation 90
Skippagurra 84, 85–9
tax deduction scheme (Skattefunn) 68
see also tax
not-for-profit see CVs
offshore industry 163
see also gas; oil
oil industry 19, 22, 95
Open Innovation see policy
ownership
multiple owners 20
patents
technology 15
see also IP; knowhow
performance and conflict 128–37
personality diversity 161–6
petroleum industry 14
policy
beneficial to start-ups 5
Open Innovation model 93–104
see also public policy
pollution 22
process model/theory 5, 109–23
property (accumulation) 57
see also facilities
‘proportional conflict composition’ 132
psychology (immigrants) 114
public
policy 27, 29, 33–4, 42–3
commercialization of university
research 61–76
see also universities
sector intervention 14

R&D
contracts (IFU/OFU) 69
cooperation 64
internal 93–4, 102
see also policy, Open Innovation
‘risk spike’ (move from basic science
to technology science research) 64
tax breaks 33
registries, business 198
regulation 33
anti-trust 33
disclosure and reporting requirements 33
see also USA, legislation, Sarbanes-
Oxley Act
relationships
asymmetric 190
see also communications; conflict
‘resources’ see Katz and Gartner
Framework
retirement (benefits) 18
risk
attitudes to 190
capital see funding
financial 190, 191
‘spike’ (move from basic science to
technology science research) 64
rock music festival 80, 85–6
rural communities 90
sales 52
Skattefunn 68
science 1, 63
entrepreneurs 145
IP 29
National Science Foundation grants 75
parks 28, 31, 32, 65, 66, 70
‘risk spike’ (move from basic science
to technology science research) 64
see also biotech; ecosystem;
technology
seed capital see funding
self-employment 16
service providers 31, 32
ship building 95
Singapore 27
SIVA 33, 69, 96, 99
Skippagurra 84, 85–9
skills 25, 29, 93, 142, 162–4
see also education; knowhow;
universities
SMEs 188, 189
SND 43
social
benefits
maternity leave 17
retirement 18
welfare/wellbeing 75
sociology 1
‘soft support’ (training, mentoring,
networking) 73
state intervention 14
suppliers 33, 36, 93, 207
supply (of entrepreneurs) 28–9
sweat equity see funding
Sweden 42, 162, 198
tax
breaks 33, 68, 71
team
member entry (ASOs) 142–53
size and diversity 157–66
see also conflict; TMTs
technology
aerospace 15
biotech 161
computers 15
engineering 95
military 15
parks 31, 32
patents 15
transfers 4, 62–5
transfer offices (TTOs) 28, 61, 70, 72, 73, 103, 145, 147, 157
use 20, 93
immigrants 118
Timmons model 23
TMTs (‘top management teams’) 142–53, 157, 158, 159, 160–61, 162–8
training see education, skills, soft support, universities
transaction costs 27, 28, 30
transfer see technology
transnationalism 111
transport 52
TTOs (technology transfer offices) 28, 61, 70, 72, 73

UK
Cambridge 62
ethnic workforce
Indian 122
Pakistani 122
see also immigrants
universities 28, 29, 61–76
Babson College Entrepreneurial Intensity Track 34
leave of absence schemes 73
technology transfer 62–5
see also academic spin-offs (ASOs);
technology transfer main entry
USA
Ben Franklin Partnership, Pennsylvania 32
Boston 7, 8
Babson College Entrepreneurial Intensity Track 34
Route 128 28
California, Silicon Valley 7, 8, 28, 30, 62
Centres for Advanced Technology, NY State 32
ethnic workforce
Chinese 118, 122
Haitian 122
Hispanic 118–19
Korean 122
Pakistani 35
legislation
Bayh-Dole Act 1980 7, 71
Chinese Exclusion Act 1882 118
Sarbanes-Oxley Act 2002 (Public Company Accounting Reform and Investor Protection Act) 33
Small Business Innovation Research Act 32
risk capital markets 168
Small Business Administration 32
Development Centers 31
Innovation Research SBIR program 61, 69
Partnership for Innovation grants 75
utilities 52
venture capital 28, 64–5, 71, 72
agency 175
- backed firms 5, 175–85
design characteristics (ASOs) 6, 157–68
- entrepreneur relationship 6, 175–85
see also funding
voluntary sector see non-profit
volunteers 84
women 50, 52, 54
employment 13, 14, 16
maternity leave 17
see also ethnic diversity; gender