Index

abstractness 4
abundance and scarcity 31, 56, 99
adoption (innovation trajectory) 198–200
agents 154
aggregation 205–6, 207
aim-oriented empiricism 163–4
aim-pursuing rationality 161–5, 167
allocation 31, 56, 82, 99
Alltop 208
Alta Vista 207
Amazon 205–7
American Productivity and Quality Council 125
anxiety 5, 56
accepting disorientation 77–81
stress/distress 6–7, 62–3
Arrow’s paradox 95–6
attention 7–8, 82–103
attention economy 82–3
competition in field of cultural inscription 85–6
copyright ownership 84–5, 92
creative arts (attention structures) 83–4, 86–7, 88–9, 91–2
design and packaging 83–4
interactivity (oscillation) 87–9
theatricality (reality to metaphor) 89–91
Australian workplaces 6
Barnes & Noble 212
Benthamite thought 24–5
best practice transfer 126, 129, 130
blogging 93
books and book-reading devices 85, 205
Borax 129
Borders 212, 213–14
brands 105
British Foresight Project on Mental Capital and Wellbeing 62
brokerage 154, 219
business ethicists 76
business management 2–3
business planning 152
outcome clarity 148–9, 154
resource-based view 25–7
business models see digital entrepreneurship
capability learning 105–17
career identity 111–12
generic skills and 110
implementation in universities 115–16
model for 112–15
required skills 107–8
and university disciplinary knowledge 106–7, 109
whole-of-career development 110–11
capitalism 30–33, 56, 88
career identity 111–15
change see learning and pain of change; processes
clusters 230
co-creation 145
cognitive capitalism 30–32
cognitive compass 111
collaboration 134–6, 145, 148
communication see attention; information technology; inscription; networks; rhetoric
communication, organizational 155–6
communities of practice 4, 9–10
catalysis 152
coordinator/facilitator 137–8, 152
definition 126–7
digital habitats 138–40
enabling 136–8
encouraging collaboration 134–6
evaluating 132–4
helping within 129–30, 131–2
knowledge transfer 123–4

239

David Rooney, Greg Hearn and Tim Kastelle - 9781781005132
Downloaded from Elgar Online at 04/29/2019 01:31:46AM via free access
types and structural distinctions 127–30
value in 130
competence 180–81, 190–91
Competence-Based View 26–7
competition 46, 85–6, 214
competitive community 149
complexity 99–103, 153
conducted and unconducted life 72
connection see digital entrepreneurship
consumers/consumption 60, 193, 195, 198–200
cooperation 145
coordination see network activation; networks
coordinator/facilitator 137–8, 152
copyright see intellectual property rights
creative arts 83–4, 86–7, 88–9, 91–2
see also creative industries; innovation
creative capitalism 30–33, 32–3, 56
creative industries 12, 193–202
adoption trajectory 198–200
definition 193
growth 194
impact of, on innovation processes 201–2
origination trajectory 197–8
retention trajectory 200–201
see also creative arts
creativity see creative arts; innovation
criticism 156
cultural conversation 85
cultural inscription 85
cultural sector see creative industries
culture of traditionalism 153
curves, the six standard 96–7
customers 156
data collection 217–20
de-skilling 100
decision 101
design and packaging 83–4
digital entrepreneurship 204–14
aggregation 205–6, 207
algorithmic filtering 208
Amazon 205–6
common components of business models 204
connection 205–6, 209, 211
expert filtering 208, 212–13
filtering 205–6, 207–9
filtering (retail) 211–13
Google 207
heuristic filtering 208, 212
judgement based filtering 208
O’Reilly Media 210–11
overview 213–14
value proposition/creation 204–6, 207–13
see also information technology
digital habitats 83, 93
complexity and 100
digital traces 217–18
online discussion 149, 152, 210–11
technology and community interdependence 138–41
digital traces 217–18
disciplinary agility 108
disciplinary knowledge 109
EC2000 41–4, 46–50
ecological sustainability 63–4
economic crisis (2007) 55
economics as abstract function 4
allocation 31, 56, 82
Arrow’s paradox 95–6
cognitive capitalism 30–32
creative capitalism 30–33, 56
of the creative industries 193–6
definitions of an economy 94, 97–9, 196
Florida’s socio-cultural dimension 32–3
human capital theory 22–3
investing business models 209
knowledge economy framework 196–7
Mankiw’s paradox 96–7
Marshallian thought 100–101
micro meso macro concept 196–201
neoclassical 19–20, 27
Schumpeterian thought 20–21, 197, 209
venture capital 88
economies of scale 213
Index

human capital 8–9, 22–3, 28, 62, 106
human interaction 126, 153–4
human welfare and academic orthodoxy 158–77

information technology 83, 85–6
digital habitats see digital habitats
exponential random graph modelling 231
Rio Tinto Collaborative Forum 136
technology stewardship 140
see also digital entrepreneurship
infotension 208
innovation 2, 12, 129
Arrow’s demand-side paradox 95–6
complexity and 99
evolutionary concepts see evolutionary innovation theory
knowledge economy growth and 216
network analysis and 24–5, 225–9, 230–31
research and development see research and development
subjective wellbeing and 60–62
see also creative arts: open innovation
innovation, the term 127, 129
Innovation Leadership Network 93
innovation processes 24–5, 195, 225–9, 230–31
inscription 85–6, 125
institutions see organizations
intellectual property rights 6, 10
as barrier to open innovation 153
as knowledge economy indicator 105
in an attention economy 84–5, 92
cognitive capitalism and 31
global hegemonic strategies 45–8
Machlup’s theories 21–2
open innovation and 145
patents as research material 218
rhetorical protection of 43–4
intentionality 189
interdependence 140, 153, 223
internet see digital habitats

knowledge, Beck’s theory 18
knowledge, disassociated 228
knowledge, explicit and tacit 125
knowledge activities 94–6, 99

David Rooney, Greg Hearn and Tim Kastelle - 9781781005132
Downloaded from Elgar Online at 04/29/2019 01:31:46AM
via free access
knowledge learning and pain see learning and pain of change
knowledge and wisdom see wisdom-inquiry
knowledge as enabler 160–61
knowledge-based economies 55–7
knowledge economy 1, 4
as tool of power (economic values) 40–41
cognitive capitalism 30–32
definition and aspects of 94–6, 102–3
micro meso macro evolutionary framework 196–7, 200
overview of theories 17–24
public policy production 3
required capabilities for 107–8
resource-based view and 25–7
rhetoric (EC2000 analysis) 3, 41–4
systems of innovation 24–5
work/employment and 27–30, 56
knowledge management 2, 38–9, 123–4
knowledge society 5, 18–19
knowledge stewardship 129, 130
knowledge transfer 123–4

laicism 78–9
learning 138, 208
learning and pain of change 7, 68–80
as physically endured (Buddhist koan) 75–6
Bildung 73
disorientation 77–80
habit and repetition 69–74, 79–80
principle of leverage 74
learning multidisciplinary creative capability 105–17
career identity 111–12
generic skills and 110
implementation in universities 115–16
model for 112–15
required skills 107–8
and university disciplinary knowledge 106–7, 109
whole-of-career development 110–11
LEG0 144
Mahalo 208
Mankiw’s paradox 94–103
Marshallian thought 100–101

Marxist theory 20, 31, 32
mathematics 169
McLaren racing teams 146
mental health/illness 6–7, 62–3, 72
modernization theory 57
natural science 162–5, 168–9, 170
neoclassical economics 19–20, 27
network activation 11, 180–91
characteristics recognition 185–6
competence, concept of 180–81, 190–91
creative team performance 182–3
development of 183
existing network literature and 188–90
network activators 182, 183–5
processes 181–2, 183, 187–8
willingness to exchange 186–7
network analysis 2, 13, 216–33
actor level 219, 227
affiliation network 221–2
binary matrix guide 220–21
boundaries 224–5
brokerage 219
closure (dense networks) 229
clusters 230, 231
content research 232
data analyses 220–25
data collection 217–20
differentiation 231–2
ethnography 219–20
exponential random graph modelling 231
innovation processes and 24–5, 225–9, 230–31
interviews and surveys 219
missing data 222–4
multi-method design 219–20
new directions in 232
qualitative techniques 218
relational data 221–2
six degrees idea 230
small world quotient (Q) 230
spatial proximity influences 220
structural holes 228–9
tractability of investigation 216, 218
weak ties and disassociated knowledge 227–8
network capability 108
Index  243

network literature 188–90
networks  
digital filtering 208  
helping 129–30, 131–2  
human interaction 126  
within open innovation 156  
team production 218  
US Army (CompanyCommand) 138
New Growth Theory 23
novelty 198–200

O’Reilly Media 210–11
open innovation theory 4, 10, 143–57  
barriers to 152–4  
business outcome clarity 148–9, 154  
business planning 152  
communication 155–6  
Discover model 147–51  
financial rewards and 143–4  
innovation airlock (third party) 149–50  
Jam model 147, 148, 151–2  
market routes 150–51  
networks 156  
on open platforms 151  
picking partners 151  
principles of 154–6  
risk as serendipity 146  
stages of (U-shaped processes) 146–7  
strategy 154–5  
trusted agents 154  
see also innovation
opportunity recognition 189  
Orange 148  
Organisation for Economic Co-operation and Development 24, 112
organizations  
business management see business management  
business models see digital entrepreneurship  
communication 155–6  
competitiveness 46  
dense networks (closure) 229  
global 46, 127, 133  
informal power 225–7  
network competence 181  
self-constraints 140, 152–4  
strength of weak ties 227–8  
structural holes 228–9  
origination (innovation trajectory) 197–8  
packing and design 83–4  
pain see learning and pain of change  
patents see intellectual property rights  
pedagogy 72–4, 80  
performance management systems 232  
persuasion 88–9, 90–91  
philosophy 170  
physics 163  
policy studies 161  
political governance see public policy  
Politico 207  
power (organizational status) 45  
power and truth 5  
global order 45–8  
informal power within organizations 225–7  
knowledge economy rhetoric analysed 39–40, 41–4, 48–50  
problem solving 108, 135, 159–61  
process metrics 132  
processes  
aggregation 205–6  
growth 25–6, 194, 216  
innovation processes 24–5, 195, 225–9, 230–31  
logistic diffusion process 199  
micro-processes of brokerage 218–19  
of network activation 181–2, 183, 187–8  
of wisdom-inquiry 171–5  
worker production process 31  
Proctor and Gamble 144  
productivity 31, 48–9  
property rights see intellectual property rights  
public good 31, 95  
public policy 1, 3, 32–3  
attention economy, impossibility of equality in 91  
education see education  
inmateriality of authority 91–2  
policy studies 161  
subjective wellbeing and 54–5, 61, 62, 63
overview of linkage to knowledge-based economies 63–4
social capital 59
stress levels and 62–3
work and innovation 60–62
symbolic analysts 49–50
systems theory 2
tacit knowledge 125
team production 218
technology brokering 218–19
technology see digital
entrepreneurship; digital habitat; information technology
temporal tension 189–90
theatricality 89–91
time scales 189–90
Tower Records 211–14
trade associations 185
Triple Helix 25
trust 137, 145, 153, 190
trusted agents 154
truth and power see power and truth
truth and the search for ‘explanatory truth’ 163–4

UCL Grand Challenges 171, 175–6
universities 9, 25, 106–17, 158–77
adaptation to capability learning 115–16
capability learning model 112–15
career identity 111–15
disciplinary knowledge questioned 109
enrolment ratios 106
generic skills 110
network analysis research into 220
orthodoxy (knowledge-inquiry) see wisdom-inquiry
role of, in an age of multidisciplinary creativity 106–9
whole-of-career development 110–11
see also education systems
University College London 10, 170–77
US Army 138
value chain 105
value creation, digital 204–6, 207–13
value in communities of practice 130
venture capital 88
Virgin Atlantic 148

wellbeing 2, 13, 54–64
abundance and 56
and anxiety 5, 6–7, 56, 62–3, 77–81
gender issues 59, 64
human welfare see wisdom-inquiry
measurements 57–60
overview of linkage to knowledge-based economies 63–4
pain of change 68–80
social capital 59
social inclusion 44
stress levels and 62–3
work and innovation 60–62

wisdom-inquiry 3–4, 158–77
academic tradition and 158–9, 177
aim-pursuing rationality 161–5
as applied at University College London 171–5
changes necessary to gain and apply 167–70
end of work thesis 29

human welfare 159
inquiry as search for wisdom 165–7
institutional innovations 170
practical translation of 175
problem-solving rationality 159–61
scientific empiricism and 162–5
see also education systems

work/employment
autonomy in the workplace 29–30
complexity and 100–103
Florida’s creative class 32
in a knowledge economy 27–30, 56
personal tie strengths 227–8
psychological stress 6
self-actualization 56
subjective wellbeing and 60–63
universities and career identity 108, 113–15
work process 31
workplace trust and job facets 59–60

World Values Surveys (WVS) 57

Yahoo 207