Index

absorptive capacity 148
academic contribution 247–8, 264
agglomeration
differentiation of 264
economies 73–4, 76
institutional set-up 133
location 44
and spin-off firms 41–2
and technological dynamism 16–17
territorial 77–80
agriculture 21–4
Akerlof, G. 186, 197
Amin, A. 75, 78, 90, 92, 154
Andersson, A.E. 144, 145, 146
Argyris, C. 7, 184
Arndt, O. 177
Arrow, K. 7, 104, 184
Asanuma, B. 86
Asheim, Bjørn T. 3, 4, 6, 131–3, 174–5, 177, 261, 262
associational economies 146
associational paradigm, see network paradigm
asymmetric knowledge 196–9, 200–201
Audretsch, D.B. 167, 195, 197
Austria 237, 252
‘ba’ (shared space) 148–9
Baden-Württemberg
coopration 89, 90, 146
global–local links 154
government role 155
institutional regional innovation systems (IRIS) 186
networks 152
private capital 115
see also Germany
Becattini, G. 73, 74
Bellandi, M. 72, 73, 74, 75, 93
Bellini, Nicola 8, 258
Best, M. 127
bioregions 189–96, 211
Boekema, Frans 254, 260
Borgatti, S. 164–5
Borras, S. 177
Bosch 118
Breschi, S. 177, 197, 255
Brusco, S. 75, 89, 93
business failures 42–3
business relations 214–18, 236–7
Butzin, B. 258, 261
California 38–46; see also Silicon Valley; United States of America (USA)
Camagni, R. 76, 79, 81, 91–2
Cambridge 153, 223; see also United Kingdom (UK)
capital allocation systems 66
capitalist development 20, 59–60, 103, 104–5
Carlsson, B. 185
Castro, E. de 92
channels, of knowledge transfer 191–6
Chesbrough, H. 188, 193, 194
Cities and Regions in the New Learning Economy (OECD) 252
civic relations 214–18
class structure 21–4
clothing industry 33–5
clusters 4–5, 77–8, 232–4, 236–7, 261, 263–6
codified knowledge 167, 177, 255–6
Cohen, W.M. 148
cohesion countries 239
Coleman, J.S. 208
communications infrastructure 65, 66, 212–14
communicative learning 80
competence 146–50
competence theory of the firm 147–8
competition 22, 26, 74–7, 81–92
Competitive Advantage of Nations, The (Porter) 77
Index

competitiveness 150–53, 154–6, 240
complicit knowledge 186
Confederazione Nazionale
d’Artigianato (CNA) 28, 46, 47
conscience collective 280–83
conventions 18, 46–9, 129, 147, 151, 213; see also untraded interdependencies
Cooke, Philip 2, 7, 90, 146, 185, 186, 188, 195, 253, 259, 261, 262, 285
cooperation
and competition 81–92
inter-firm 84–7, 89–90, 106
intra-firm 88–9, 106–7
regional 90–92
social institutions 212–14, 223
cooperation mechanisms 212–14
Cornford, J. 258, 265
Cortright, J. 195
Crevoisier, O. 72, 74
Cross, R. 164–5

De La Mothe, J. 260
decentralized industrial creativity (DIC) 74–5
dedicated biotechnology firms (DBFs) 189–96
Dei Ottati, G. 81, 83
Denmark 154, 155, 224
design-approved suppliers (DA) 87
design-supplied suppliers (DS) 87
diamond model 247
Dicken, P. 177
Dirckinck-Holmfeld, L. 184
discontinuities in development 247
disembodied knowledge 177
Dohse, D. 195, 197
Dore, R. 28
Dosi, G. 17, 92
Drucker, P. 59
Dunakanyar 155
Durkheim, Émile 8, 278–84
dynamic relational proximity 255
economic geography 128–9, 199, 225–6, 264
economic reciprocity 27
economies of scale 75–6, 199
Elster, J. 219
embeddedness 73, 275–89
Emilia-Romagna 146, 152, 155, 170;
see also Italy; northeast-central Italy
End of the Nation State: The Rise of
Regional Economies, The (Ohmae) 2
Enright, M. 265
entrepreneurial competence 111
entrepreneurial regional innovation systems (ERIS) 186
entrepreneurs 21–4
European Regional Development Fund 235–7, 242
European Social Fund 258
European Union (EU), regional policy
concept 232–4
developments 120, 134, 234–7, 253
institutional challenges 102
interregional inequalities 109
learning regions 3, 4
polity role 242–6, 256
reappraisal 238–42
Regional Technology Plan (RTP) 109–13, 119, 135, 259
research and development (R&D) 62–3
examination knowledge 186, 187, 197
exit, from industry 30–31, 44–6
exploitation knowledge 186, 187, 195, 197, 211
exploration knowledge 186, 187, 195, 197, 211
family structure 22, 25–6
feedback 103
Feldman, M. 197
financial systems 66
Finland 237
Fishlow, A. 38
flexibility 22, 25–6, 28–9, 84
‘flexible rigidities’ 28–9
Florida, Richard 2, 3, 4, 6, 130–31
foreign direct investment 60–63, 108, 115, 143
France 32–7, 154, 155
Fürst, D. 261–2
Garofoli, G. 71, 74
Genentech 192–3
geography of innovation 166–8
geography of knowledge 135, 138, 284
Germany
EU regional policy 237
innovation 43–4, 45, 106
intra-firm cooperation 89
Learning Region programme 253, 258
private capital 115
regional cooperation 90
social capital 224–5
see also Baden-Württemberg; Ruhr
Area
Gertler, M.S. 262, 263
Gibbons, J. 196
Gilly, J.-P. 177
Gilsing, V. 164
global networks 154, 262–3
globalization
bioregions 195
vs. localization 107–9, 130
regional development 60–63
regional knowledge 196
regional knowledge capabilities theory 188
‘Globalization 2’ 196, 199, 200
global–local links 153–6
Goodman, J.P. 144
governance 65, 66–7, 133
government role 35–7, 155, 224–5, 238–9, 242–6; see also public authorities; Triple Helix
Grabher, G. 82, 91
Granovetter, Mark 8, 128, 133, 164, 276–8, 279, 281, 283, 289
Greece 236, 237, 239
growth poles 78
Habermas, J. 79
Håkansson, H. 86, 90
Hansen, M. 164, 184, 200
Haraldsen, T. 85
Hass, P.M. 219
Hassink, Robert 8, 275, 276
Henry, N. 152
high technology industry 35–7, 38–46
Hirschman, A. 45
Hodgson, G. 77
Holzner, B. 219
homeworkers 26, 29
horizontal mobility 46–8
horizontal quasi-integration 85–7
Hospers, Gert-Jan 7
Hudson, R. 253, 259, 260
human infrastructure 65–6
Hungary 155
Huseman, R.C. 144
ICT (information and communication technologies) 237, 241
ICT (information, computer and telecommunication) 80
identity, conventions of 46–9
Île-de-France 32–7, 46
image (regional) 245–6
incremental innovations 72–7
industrial districts
cooperation 81–92
features 175–6
future development 71–2
in learning economy 77–80
as learning regions 3, 92–4, 133, 261
Marshallian characteristics 72–7
as regional innovation networks 169–70
industrial maturity 42
industrial relations 28–9, 36–7, 88
information 164–5, 167
innovation
conceptualization of 160, 174, 175
definitions of 161
and horizontal mobility 46–8
incremental 72–7
and institutional routines 4–5, 75, 87–92, 104–9
as interactive process 103–4
inter-firm cooperation 84–7
and knowledge 162, 185–8
and learning 80, 184–5, 254
potential 241
and proximity 174, 175–6, 179–81, 241–2
regional support 133
sources of 21–4
theory of 102–3
innovation networks 161–5, 177–81;
see also regional innovation networks; regional innovation systems (RIS)
inovation-mediated production 59
innovative environments 235–6, 245
innovative milieux 152–3, 168–9, 175–6, 261
institutional regional innovation systems (IRIS) 186
institutions
and innovation 4–5, 75, 87–92, 104–9
and regional knowledge 151
regional set-up 138, 285, 286
role of 174, 175
see also social institutions
interactive learning 80, 172
inter-firm cooperation 84–7, 89–90, 106
inter-firm relations 23, 26–7, 41–2; see also social capital
inter-organizational relationships 174, 175
interpersonal relationships 145–6
intra-firm cooperation 88–9, 106–7
investment
attracting 116
foreign direct investment 60–63, 108, 115, 143
social capital 222–5
venture capital 145, 190, 220
Ireland 239
Italy
capitalist development 20
EU regional policy 236, 237
global–local links 154
industrial districts 170
innovation 43–4
production systems 18–19, 21–31
see also Emilia-Romagna; northeast-central Italy
Jack, S.L. 164
Jaffe, A. 197
Japan
coopration 88, 106
foreign direct investment 60–62
and globalization 58–9
industrial districts 170
innovation 43–4, 45
knowledge, attitudes to 105–7, 149
national innovation systems 106
research and development (R&D) 62–3
social technology 86
supplier development 116
Jensen-Butler, C. 92
Johnson, B. 80, 87, 88, 177
Jura d’Arc 152, 154, 155
Jutland 155
kaizen 107
Kenis, Patrick 7
know-how 105–7
knowledge
acquisition 146–50
codified 167, 177, 255–6
complicit 186
collaboration 104
examination 197
exploitation 186, 187, 195, 197, 211
exploration 186, 187, 195, 197, 211
forms of 143–6
and information 164–5, 167
and innovation 162, 185–8
and learning 275–8
problems 186–7
regional 150–53
role of 143
see also tacit knowledge
knowledge economy 4, 189–96, 206–7, 210
knowledge spillovers 166–8, 174, 190, 246
knowledge-based capitalism 59–60, 63–7
knowledge-based organizations 67–8
Konno, N. 148–9
Krakow Region 155
Krugman, P. 199
labour market policies 120–21
labour mobility 25–6, 147
labour relations 28–9, 36–7, 88
Lagendijk, A. 252, 258, 265
Landabaso, Mikel 8
Latour, B. 188, 197
Lawson, C. 147
Lazonick, W. 82
learned relational characteristics 164
learning
concepts of 148
and innovation 80, 184–8, 254
interactive 80, 172
Roel Rutten and Frans Boekema - 9781847205537
Downloaded from Elgar Online at 08/26/2019 03:02:50AM
via free access
and knowledge 275–8
localized 206, 233
networks 130–31
problems 200
social institutions 212–14
as a social process 16–18, 128, 129
learning ability 111
learning clusters 263–6
learning economy 77–80, 81–92, 104–9
learning organizations 87–92
learning processes 146–50
Learning Region programme (Germany) 253, 258
learning regions
asymmetric knowledge 196–9
concept 247, 256–9
conceptual framework 140
definition 2, 59, 136, 276
development of 63–7
embeddedness perspective 275–8, 284–9
features 175–6
industrial districts as 3, 92–4, 133, 261
origins of 1, 4–5, 130
and regional innovation networks 173–4
and regional innovation systems (RIS) 133, 261–2, 264
and regional learning 129, 254, 265–6, 276–8, 287–9
relevance 263–5
research agenda 289–91
variables 137–40
weaknesses 259–63
learning-by-doing 74, 80, 254
learning-by-interacting 89, 254–6
learning-by-using 74, 80, 254
Leborgne, D. 85, 86
less favoured regions (LFRs) 109
Levinthal, D.A. 148, 184
‘lifeworld’ 79–80
linear innovation model 78, 103, 160
Lipietz, A. 85, 86
Lipparrini, A. 89
Lissoni, F. 177, 197
localization, vs. globalization 107–9, 130
localization economies 73
localized learning 206, 233
loosely coupled social relations 215–18
Lorenzen, Mark 8, 195, 196, 275, 285
Lorenzoni, G. 89
loyalty, to the industry 23, 30–31
Lund-Jensen, R. 189
Lundvall, B. 2, 79, 80, 87, 88, 105, 108, 173, 177, 184
Malecki, Ed 7
Malerba, F. 255
Malmberg, A. 177, 197, 252, 253, 264
Manchester 154, 155
manufacturing infrastructure 64–5
March, J. 184, 186, 187
Markusen, A. 259, 260
Marshall, A. 72–7, 169
Martin, R. 260, 265
Martinez, R. 240
Marx, K. 102
Maskell, P. 195, 196, 197, 264
Mayer, H. 195
McEvily, B. 181
mechanical solidarity 279–80, 282
Meeus, Marius 7
Micklethwait, J. 145
Millennium Pharmaceuticals 193–4
mobilization of resources 39–41
Mode 2 knowledge production 196
Moore, B. 20
morality 278–9
Morgan, Kevin 3, 4, 6, 134–6, 137, 146, 173, 258, 262, 276
motivation, of workers 26
Mouleart, F. 160, 261
nation state role, see government role
national innovation systems 105–6, 262–3
Nelson, R.R. 148
network paradigm 101, 119, 134, 136
networks
conceptualization of 174, 175
conventions of 18, 46–9
and embeddedness 277, 288–9
and innovation 161–5, 178–81
inter-firm cooperation 84–7
interpersonal relationships 145–6
knowledge transfer 150–53
and learning 130–31
and the learning region 4–5
negative effects of participation 178
policy networks 242–6
regional policy 114–19
and regions 64–7, 131, 285
role of 111, 113, 129
social relations 218, 283
structural features 163–4
technological dynamism 16
see also regional networks
new industrial spaces (NIS) 171–2, 175–6
Nonaka, I. 59, 148–9, 289
non-local links 153–6
Nooteboom, B. 164
northeast-central Italy
capitalist development 20
cooperation in 81, 84, 88, 89–90, 146
government role 155
industrial districts 170
networks 152
production systems 18–19, 21–31
resource mobilization 46
social capital 223
social institutions 219
see also Italy
North Pas-de-Calais 154, 155
oblique quasi-integration 85–6
Oerlemans, Leon 7, 275
Ohmae, K. 2, 63
Oinas, P 252
Oliver, C. 161, 178
open networks 163, 179
open science 191–6, 200
organic solidarity 279, 280–81, 282
Organisation for Economic Co-
operation and Development
(OECD) 4, 61, 252, 256
organizational innovation 87–92
organizational integration 86
organizational proximity 255
Owen-Smith, J. 181

Paquet, G. 260
participation, conventions of 46–9
Patchell, J. 86
Peck, J. 260
Penrose, E. 188
Perroux, F. 73, 78
Perulli, P. 29

physical infrastructure 65, 66
Pinch, S. 152
Piore, M. 72, 82, 127, 211
‘pipelines’, of knowledge transfer 190, 191–6
Poland 155
policy networks 242–6
political influence 27–30
Pomperanz, J.O. 252
Porter, M. 1, 77, 82, 83, 88, 91, 92, 154, 233, 247, 265
Portugal 170, 236, 239, 240
Powell, W.W. 181
Principles of Economics (Marshall) 169
Procter & Gamble 194, 195
production
complexes 42
networks 16
systems 18–19, 21–31, 32–7, 38–46, 65
‘worlds’ 17–18
productivity 61
proximity
and embeddedness 284, 286
and innovation 174, 175–6, 179–81, 241–2
and knowledge 143–6, 148
learning organizations 90
regional learning 255
and research 189–96
and tacit knowledge 135, 138, 173–7, 232, 284
public authorities 222–5, 233–4, 242–6;
see also government role
public research organizations (PROs) 191–2
Pyke, F. 81

quality of products 31
quasi-integration 85–7, 132, 133

Reagans, R. 181
regional clusters 150
regional competence 147–8
regional cooperation 90–92
regional image 245–6
Regional Information Society
Initiatives (RISI) 234
Regional Innovation and Technology
Index

Transfer Strategies (RITTS) 234, 259
regional innovation networks 166–77, 179–81; see also innovation networks; regional innovation systems (RIS)
Regional Innovation Strategies (RIS) 234, 244–5, 259
regional innovation systems (RIS)
  asymmetric knowledge 196–9, 200–201
  concept of 172–3, 175–6
  and embeddedness 285, 286
  EU regional policy 232–7
  and knowledge 185–8, 200
  and learning regions 133, 261–2, 264
  problems 238–40
  as producer–user links 150
  and research 189–96, 200
tools 245
see also innovation networks;
  regional innovation networks
  regional institutions 285
regional knowledge 150–53, 196
regional knowledge capabilities theory
  188, 195, 199, 200
regional learning
  concept of 254–6
  and learning regions 4–5, 129, 265–6, 276–8, 287–9
  social context 9, 16–18
regional networks
  conventions of 18, 46–9
  inter-firm networks 138, 285, 286
  learning in 130–31
  and regions 131
see also networks
regional policy 3, 114–19, 256–7, 264, 286–7, 288; see also European Union (EU), regional policy
regional scale 198
Regional Technology Plan (RTP) 111–13, 119, 135, 259
regions 17–18, 58–9, 60–67, 68
relational embeddedness 277, 283, 284, 285, 286
relation-specific skill 86–7
research 187–8, 189–96, 200
research and development (R&D) concepts of 148
cooporation in 83–4
foreign investment 108
geographical location 147, 240–41
global activity 62–3
as information exchange 152
and innovation 103
knowledge spillovers 167–8
learning economy 78
Silicon Valley 146
research and technological development (RTD) 109, 112
resources 22, 25–6, 39–41, 46–8
risk, and knowledge transfer 197–8
Rosenberg, N. 38, 108
Rosenthal, S. 195, 197
Ruhr Area 154–5, 252
Russo, M. 89
Sabel, C. 72, 82, 127, 211
Sakkab, Nabil 194
Sapir, A. 238
Saxenian, Annalee 2
Schoenberger, E. 108–9
Schumpeter, J.A. 77, 102–3
Sekia, F. 160, 261
sell-out, by entrepreneurs 42–3
Semlinger, K. 84
shared space (‘ba’) 148–9
Silicon Valley
culture 145–6
entrepreneurial regional innovation systems (ERIS) 186
knowledge-based organizations 67
labour mobility 147
as learning region 58, 136, 252–3
non-local links 153
regional learning 255–6
social capital 223
social institutions 146, 219
see also California; United States of America (USA)
Smith, K. 78, 189
social capital
accumulation of 221–2
collaborative learning 105–6
definition 104, 134, 208–10
and embeddedness 285–6
investment 222–5
learning regions 138–9, 257
negative 192
regional differences 220–25
and regional knowledge 151
Regional Technology Plan (RTP) 113, 135
role of 134–6
tacit knowledge 256
and technological learning 210–14
and trust 104, 135, 208
social closure 26–7
social conventions 213
social density 278
social embeddedness 278, 283, 284, 285, 286
social institutions
and innovation 104–9
learning 212–14
regional basis of 218–19, 220–21
Silicon Valley 146, 219
and social relations 218–19
solidarity 279–84
unlearning 223
see also institutions; social capital
social learning 80, 128, 129
social relations
family 22, 25–6
regional formation of 214–18, 220
and social capital 208
and social institutions 218–19
and solidarity 278–84
types 215
value of 210–12
see also embeddedness; social capital
social solidarity 278–84
social trust 213–14
social welfare 134
socio-cultural factors 72–4, 79
solidarity, social 278–84
Source Wales programme 116–17
Spain 236, 237, 239, 240
spatial interaction literature 168–77
spatial proximity
and embeddedness 284, 286
and innovation 174, 175–6, 179–81, 241–2
and knowledge 143–6, 148
learning organizations 90
and regional learning 255
and research 189–96
and tacit knowledge 135, 138, 173–7, 232, 284
spin-off firms 41–2, 45
state role, see government role
static relational proximity 255
Sternberg, R. 177
Storper, Michael 1, 4, 6, 77, 107, 108, 109, 127–9, 132–3, 135, 171–2
Strange, W. 195, 197
strategic planning 243–4
structural embeddedness 277, 283, 285, 286
Structural Funds 110, 239–40
Sunley, P. 77, 265
Supplier Association 116
supplier development 116–17
supply chain integration 237
sustainable advantage 68
Sweden 236, 237
Sweeney, G.P. 216
Switzerland 152, 154, 155
systems of innovation approach 2–3
tacit knowledge
and innovation networks 162
knowledge spillovers 167–8
regional learning 255–6
role of 105–7
and spatial proximity 135, 138, 173–7, 232, 284
transfer of 148–50
see also knowledge
Takeuchi, H. 289
technical learning 80
technological change 15
technological competence 111
technological dynamism 16–17, 49
technological learning 17–18, 117, 210–14
technology districts 17, 46–8
technology industry 35–7, 38–46
technology support programme 117
Thrift, N. 75, 78, 90, 92, 154
tightly coupled social relations 215–18
time, and knowledge transfer 198
Torre, A. 177
traded interdependencies 107, 147, 171–2
training 117–18
transplant companies 60–63
Trigilia, C. 28
Triple Helix 185, 186, 243
trust
Marshall’s view 73
networks 132–3
and regional knowledge 151
Silicon Valley 146
and social capital 104, 135, 208
social trust 213–14

unemployment 61, 120–21
unionization 28–9, 36–7
uniqueness 155–6
United Kingdom (UK) 106, 114–19, 154, 155, 237, 238; see also Cambridge; Wales
United States of America (USA) 3, 38–46, 58–9, 61–3; see also Silicon Valley
untraded interdependencies
as conventions 129, 147
and globalization 107–9
local technological learning 17, 128
and new industrial spaces (NIS) 171–2
regional networks 131
Silicon Valley 145–6
tacit knowledge 256
unlearning 223

weaknesses 260
see also conventions
urbanization economies 73
venture capital 145, 190, 220; see also investment
vertical quasi-integration 85
vertical relations 23, 27–30
Virkkala, S. 252
von Hippel, E. 210
Wales 114–20; see also United Kingdom (UK)
Walker, R. 77
Welsh Development Agency (WDA) 114–20
Wilkinson, F. 81, 87
Williamson, O. 132
Winter, S. 186
Winter, S.G. 148
Wolfe, D.A. 262
Woolcock, M. 208
workers, sources of 21–4
World Bank 4, 256
worlds of production 17–18, 129; see also conventions
You, J.-I. 81, 87
Zeitlin, J. 170
Zeller, C. 195