Index

accessibility concept and knowledge diffusion 232
accessibility to R&D and patent production, Sweden 234–57
accumulation of knowledge capital 206
Acosta, M. 308
Acs, Z. 232, 233, 299, 361
age of firm, and R&D investment 307
agency control mechanisms 294, 296–9, 301–4
and innovative effort 294, 305–18
agency problems 296
agency theory 295–6
agglomeration economies and firm growth 346–7
and ICT industries 274–80
agglomeration indicators 350–53, 358–61
agglomeration shadow-effect 22, 25, 33
agro-food biotechnology bioregions 140, 159–63, 164
locational clustering 140
Andersson, M. 21, 233
Anselin, L. 355
Arrow, K. 352
Asheim, B. 143
asset specific investment 215–16
attraction and cooperation 385–93
Atzema, O.A.L.C. 361
Audretsch, D.B. 142, 231, 232, 233, 244, 351
Autant-Bernard, C. 232
automotive industry, research outsourcing 146
autonomy and regional self-governance 342
Azofra, V. 297, 298, 311
Barr, J. 199
Basel 155, 159–60, 163
Bassett, G. 243
Beardsell, M. 351
Beckmann, M.J. 199, 232–3, 261–2
Berle, A.A. 67
bioregional innovation systems, global network specificities 155–63
bioregions 149–65
agro-food bioscience 164
biopharmaceutical 152, 161–3
collaborative publications 147–9, 149–52
bioscientific industries 138–65
collaborative publication 149–52
global nodes and networks 149–55
regional innovation systems 143–5, 155–63
research outsourcing 145–9
BioValley 155, 161
Black, D. 351
Bottazzi, L. 232
Breschi, S. 142, 232
Bretschger, L. 199
Buesa, M. 312
business attitudes
policy recommendations, Trento province 341
and regional strategy-building 342–3
business knowledge networks 141
business R&D expenditure
EU regions 189–90
Trento province 335
Busom, I. 308
Cameron, C. 258
Caniëls, M. 142
Capello, R. 79
capital concentration see ownership concentration
Capozza, D.R. 123
Casson, M. 349
<table>
<thead>
<tr>
<th>Name</th>
<th>Page(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cavailhes, J.</td>
<td>123</td>
</tr>
<tr>
<td>Central Place Systems (CPS)</td>
<td>20–21</td>
</tr>
<tr>
<td>Cheshire, P.C.</td>
<td>116, 121, 122</td>
</tr>
<tr>
<td>Christaller effect</td>
<td>22, 25, 33</td>
</tr>
<tr>
<td>cities</td>
<td></td>
</tr>
<tr>
<td>inertia</td>
<td>108</td>
</tr>
<tr>
<td>land use planning</td>
<td>119–27</td>
</tr>
<tr>
<td>office space costs</td>
<td>125–7</td>
</tr>
<tr>
<td>urban competitiveness</td>
<td>110–13</td>
</tr>
<tr>
<td>urban planning</td>
<td>106–10</td>
</tr>
<tr>
<td>urban policy effects</td>
<td>113–19, 128–31</td>
</tr>
<tr>
<td>co-publishing</td>
<td>147–9, 149–52</td>
</tr>
<tr>
<td>cohesion costs, telecommunications policies</td>
<td>82, 95–101</td>
</tr>
<tr>
<td>cohesions policy scenario</td>
<td>86</td>
</tr>
<tr>
<td>impact on cohesion</td>
<td>95</td>
</tr>
<tr>
<td>impact on efficiency</td>
<td>93–4</td>
</tr>
<tr>
<td>Cohesion reports, EC</td>
<td>172–3, 177</td>
</tr>
<tr>
<td>collaboration and competition, urban jurisdictions</td>
<td>375–93</td>
</tr>
<tr>
<td>collaborative publication, biotechnology</td>
<td>147–9, 149–52</td>
</tr>
<tr>
<td>collective action and governance</td>
<td>327</td>
</tr>
<tr>
<td>collective vision-building, Trento province</td>
<td>337–40</td>
</tr>
<tr>
<td>Combes, P.</td>
<td>360</td>
</tr>
<tr>
<td>Communities of Practice (CoPs)</td>
<td>198–9</td>
</tr>
<tr>
<td>competition</td>
<td></td>
</tr>
<tr>
<td>as agglomeration indicator</td>
<td>360</td>
</tr>
<tr>
<td>and cooperation, urban jurisdictions</td>
<td>375–93</td>
</tr>
<tr>
<td>regional governments</td>
<td>211–29</td>
</tr>
<tr>
<td>full liability</td>
<td>217–21, 226–8</td>
</tr>
<tr>
<td>limited liability</td>
<td>221–5, 226–8</td>
</tr>
<tr>
<td>competitiveness</td>
<td>110–13</td>
</tr>
<tr>
<td>effects of urban policies</td>
<td>113–19</td>
</tr>
<tr>
<td>concentration as agglomeration indicator</td>
<td>360</td>
</tr>
<tr>
<td>concentration measures, ICT industries</td>
<td>277</td>
</tr>
<tr>
<td>consumer service diversity and market size</td>
<td>19–36</td>
</tr>
<tr>
<td>containment policy, London planning</td>
<td>109–10</td>
</tr>
<tr>
<td>convergence hypothesis, managerial ownership</td>
<td>297</td>
</tr>
<tr>
<td>Cooke, P.</td>
<td>326</td>
</tr>
<tr>
<td>cooperation</td>
<td></td>
</tr>
<tr>
<td>and attraction</td>
<td>385–93</td>
</tr>
<tr>
<td>measurement</td>
<td>385–6</td>
</tr>
<tr>
<td>network paradigm</td>
<td>80</td>
</tr>
<tr>
<td>CoPs (Communities of Practice)</td>
<td>198–9</td>
</tr>
<tr>
<td>cross-border collaboration, Ireland</td>
<td>38–53</td>
</tr>
<tr>
<td>cross-border trade, micro-enterprises, Ireland</td>
<td>47–9</td>
</tr>
<tr>
<td>cross-sectoral technologies, Trento province</td>
<td>337</td>
</tr>
<tr>
<td>Cuadrado-Roura, J.R.</td>
<td>195</td>
</tr>
<tr>
<td>De La Fuente, J.M.</td>
<td>299</td>
</tr>
<tr>
<td>debt financing</td>
<td>298, 302</td>
</tr>
<tr>
<td>impact on R&amp;D</td>
<td>311–12, 316, 318</td>
</tr>
<tr>
<td>decision-making</td>
<td></td>
</tr>
<tr>
<td>inclusion of owners</td>
<td>301–2</td>
</tr>
<tr>
<td>slowness, London planning policy</td>
<td>110</td>
</tr>
<tr>
<td>Dicken, P.</td>
<td>22</td>
</tr>
<tr>
<td>discontinuities in land value surface</td>
<td>122–7</td>
</tr>
<tr>
<td>distance-sensitivity and industry location</td>
<td>261–2, 265–7</td>
</tr>
<tr>
<td>diversification and innovation</td>
<td>142</td>
</tr>
<tr>
<td>economy</td>
<td></td>
</tr>
<tr>
<td>national, and urban competitiveness</td>
<td>115</td>
</tr>
<tr>
<td>regional size, and industry location</td>
<td>280–84, 286–7</td>
</tr>
</tbody>
</table>
Index 399

eEurope 2002 Action Plan of the Community 83–4
efficiency costs, telecommunications policies 82, 91–5
efficiency telecommunications policy scenario 85–6
impact on cohesion 95
impact on efficiency 92–3
EIS (European Innovation Scoreboard) 177
Electre TRI 178
employment
as agglomeration indicator 361
effects of ownership transition problems 70–71
in high-tech services, EU regions 187
in medium/high-tech manufacturing, EU regions 185–6
entrenchment hypothesis, management ownership 297
entrepreneurial knowledge transfer 60
entrepreneurship, spatial perspectives 348–50
entropy method of diversity measurement 30–31
ESEE (Survey of Entrepreneurial Strategies, Spain) 299–300
Eskelinen, H. 173–4
European Innovation Scoreboard (EIS) 177
European Research Area 326
European Spatial Development Perspective (ESDP) 172
European Union
future investment in telecommunications 88–90
telecommunications policy, impact on regional disparities 78–102
and urban competitiveness 108–9
European Union regions 170–96
economic and social cohesion 181–4
education 184–5
employment 185–7
GDP per capita 178–81
patent applications 190–91
peripherality indicators 173–5
peripherality study 175–91
R&D expenditure 188–90
expenditure on R&D
EU regions 188–90
Trento province 335
export activity, micro-enterprises, Ireland 45–51
export barriers 39–40
Feldman, M.P. 142, 231, 232, 233, 351
Fingleton, B. 361, 371
firm concentration 61–7
and ownership transfer 75
firm growth
and agglomeration economies 348–53
spatial effects 349–50
firm size
ICT industries 274–6
and innovation 312
and R&D effort 316
and R&D investment 307
firm-specific investment 215–16
foreign ownership as control mechanism 298, 303–4
foresight, regional 329–30, 343
foresight workshop, Trento province 337–40
Francis, J. 299
Fujita, M. 262, 263
full liability, regional competition 217–21
compared with limited liability 226–8
funding research, Trento province 333
Galende, J. 299
GenieTech 145
Genomics Institute of the Novartis Research Foundation (GNF) 156
generates extent of market, and R&D investment 308, 313
geographical proximity see spatial proximity
Glaeser, E. 142, 351, 360, 362

Charlie Karlsson, Börje Johansson and Roger R. Stough - 9781849802147
Downloaded from Elgar Online at 02/04/2019 05:45:12AM
via free access
global competition, national pay-offs 221, 225, 227
global nodes and networks in biosciences 149–55
globalization and urban competitiveness 108–9
Globerman, S. 351
Gordon, I.R. 270
governance issues and regional strategy-building 327, 342
policy recommendation, Trento province 341
government region size and urban growth rate 117
Grabher, G. 144
Griliches, Z. 142, 234
growth, effect of urban policies 113–19, 128–31
growth mechanisms, firms 349

Hall, B. 316
Haynes, KE. 199
Helsley, R.W. 123
Henderson, V. 142, 347, 351, 360
Herfindahl–Hirschman Index (HHI) 61–4
hierarchical bureaucracy theory 296
high-tech manufacturing
EU regions 185–6
Trento province 335
high-tech patent applications, EU regions 190–91
high-tech services, EU regions 187
Hoffman-La Roch (Roche) 157
Hogg, T. 199
home market effect 21
housing market, space as attribute 119–22
Howard, E. 107
Huberman, B.A. 199

ICT industries
and agglomeration economies 274–80
characteristics 274–6
concentration 277
firm growth and agglomeration economies 361–9
location 265–73
location probabilities 280–87
National Capital Region 379–80
the Netherlands 353–5
and rise of regional economies 1–2
incentives for economic development 211–12
indiscriminate telecommunications policy scenario 84–5
and cohesion 95
and efficiency 92
industry location see location
inertia of cities 108
information and communication technology see ICT industries
innovation
and agency control 294, 305–18
and knowledge management 141–3
open innovation strategy 145–9
and ownership structure 299
and regional development 174–5, 194–6
regional governance 326–44
Trento province 331–42
regional innovation systems 143–5, 152–63
and sectoral diversity 141–2
innovation indicators 233
EU regions 184–91
input-demand externality, industry location 262–3, 269–71
integration and urban competitiveness 108–9
internationalization
barriers to 39–40
cross-border collaboration, Ireland 38–53
and urban competitiveness 108–9
Internet-working adoption phase 81
investment in telecommunications, EU 88–90
Ireland, micro-enterprises and cross-border collaboration 38–53
Isaksen, A. 143
Isberg, S. 299
Italy, Trento province 330–42

Jacobs, J. 142, 352
Jaffe, A.B. 231, 232, 233
Jensen, M.C. 68, 296
Johansson, B. 231, 235
Karlsson, C. 232, 233
Keeble, D. 171
Klaesson, J. 21
Kleinknecht, A. 233
Knaap, G. 119
knowledge-based economy and Lisbon Strategy 78
knowledge-based theories of endogenous development 352
knowledge capital accumulation 206
knowledge flows 231
knowledge management 141–3
knowledge network learning model 198–207
knowledge networks 141
knowledge spillovers 142–3, 231
and firm growth 351–2
Koenker, R. 243
Krugman, P. 262, 264
Kuhlmann, S. 327
Kulkarni, R. 199

labour force quality, and innovation 174
Lafuente, A. 307
land market, space as attribute 119–22
land use planning 119–27
land values
Reading 124–5
surface discontinuities 122–7
as urban competitiveness measure 111
lifelong learning
EU regions 184–5
Trento province 334
limited liability, regional competition 221–5, 226–8
Lisbon strategy and knowledge-based economy 78
Lissoni, F. 142, 232
listed firms 60
and municipal dependence 66–7
profitability 67–70
listing on Stock Exchange as control mechanism 298, 303
effect on R&D investment 312
literature-based innovation output measures 233
Lloyd, P. 22
local company R&D accessibility, and patent production 247
local government competition, welfare effects 211–29
local paradigm as production organization model 79
local policy effects on urban competitiveness 116
localized knowledge spillovers 142–3
location
ICT industries 261–89
and regional diversity 284–6, 286–7
and size of regional economy 280–84
location quotient 277
London
economic growth factors 117–18
planning decision slowness 110, 128
planning policy 109–10
urban land prices 123–5
Love, J.H. 299
Lucas, R.E. 199, 346
Lund-Jensen, R. 165
Magrini, S. 116
managerial company theory 295
managerial labour markets 297–8
managerial ownership 297
Manduchi, A. 232
manufacturing, medium/high-tech
EU regions 185–6
Trento province 335
market perspective, regional innovation systems 143
market size
definition 27–8
and diversity 19–36
markets, micro-enterprises, Ireland 47
Marshall, A. 352
Mayntz, R. 327
McCann, P. 270
McConnell, J.J. 298
McFadden pseudo R-square 280–82
Means, G.C. 67
Meckling, W.H. 68, 296
medium and high-tech manufacturing
EU regions 185–6
Trento province 335
micro-enterprises, Ireland 38–53
barriers to internationalization 40
characteristics 42–4
and cross-border trade 47–9, 51–3
export activity 45–9
Molero, J. 312
Moran’s I 252
multi-actor regional governance 327–8
multi-level governance 327
municipalities
classification, Sweden 28–30
firm concentration 61–7
Mushinski, D. 20
Myers, S. 316

National Capital Region, advanced
technology sector 379–80
jurisdiction competition and
cooperation 380–93
national economy, effect on urban
competitiveness 115
national pay-offs
global competition 221, 225, 227
regional competition 212, 216, 220,
221, 227
Netherlands Genomics Initiative 159
Netherlands, ICT industry
agglomeration indicators 358–61
firm growth in agglomeration
economies 361–71
ICT firms 353–5
spatial regimes 355–8
network dynamics, interactive-
knowledge network model 205
network paradigm 80
Nightingale, P. 146
node dynamics, interactive-knowledge
network model 205
non-listed firms, Sweden
ownership transfer problem 59–60,
61, 70–71
profitability 67–70
Novartis 139, 155–9, 160, 163
Noviant 159
office space, international price
comparisons 125–7
Ohlin, B. 261
Olson, M. 116
organizational learning 198
output-demand externality, industry
location 262–3, 267–9
Owen-Smith, J. 143
owner inclusion in decision-making
296–7, 301–2
impact on R&D activity 309–11,
317–8
ownership concentration 297, 302
and innovation 299, 311
and R&D effort 315
and R&D investment decision 311
ownership transfer 57–76
and industry structure 61–7
Paelinck, J.H.P. 390
patent applications
EU regions 190–91
as innovation indicator 233, 236
Trento province 335–6
Penrose, E. 139, 141
per capita GDP see GDP per capita
Peri, G. 232
peripherality 170–96
EU regions 175–91
and innovation 174–5
pharmaceutical industry
co-publishing 147–8
research outsourcing 146–52
planning, urban 106–10
land use 119–27
London 109–10, 130–31
policy capacity 116–17, 118–19,
136–7
population accessibility and patent
production 250–51
population distribution, EU 171–3
Porter, M. 352
Powell, J.L. 244
Powell, W. 143
product cycle models 262–3
public ownership as control
mechanism 298, 303–4
public R&D expenditure
EU regions 188–9
Trento province 335
publication activity, Trento province
336
Puga, D. 20
Puu, T. 261–2
quantile regression 242–9
Quigley, J. 19
R&D access, effect on patent production 234–57
R&D activity, Trento province 332–3
R&D, business expenditure, EU regions 189–90
R&D effort 308–9
and agency control mechanisms 313–16
as innovation indicator 233
R&D investment decision 305–8
and agency control mechanisms 309–13
R&D outsourcing
automotive industry 146
bioscientific industries 138–65
R&D, public expenditure
EU regions 188–9
Trento province 335
random effects probit model 306
Reading, urban land prices 124–5
real GDP per capita as urban competitiveness measurement 111–13
region size and urban growth rate 117
regional competition, welfare effects 211–29
with full liability 217–21, 226–8
with limited liability 221–5, 226–8
regional development
and innovation 174–5, 194–6
science-based strategy 325–44
regional disparities, and telecommunications policy 77–102
regional foresight 329–30, 343
regional governance of innovation 326–31
Trento province 331–42
regional innovation systems 143–5, 155–63
regional interaction and economic diversity 19–36
regional knowledge capabilities approach 140–45
regional policy and peripherality 194–6
research see R&D
resource abundance and industry location 261
resources and regional strategy-building 341
retail market diversity 20, 31–4
Richardson, G. 144
Roche 157
Rodriguez, J.A. 311
Rogers, W.H. 243
Romer, P.M. 199, 346, 352
Romijn, H. 142
Rosen, S. 119
Rosenthal, S.S. 347, 360
Saraceno, F. 199
Saskatoon bioscience cluster 154–5
Saxenian, A. 233
Schamp, E. 146
Schumpeter, J. 307, 312
science-based regional development 325–44
Science Citation index as scientific output indicator 336
Scripps Research Institute 156
Seddighi, H.R. 299
separation of ownership and control 296
Servaes, M. 298
Sheppard, S. 121, 122
simple agglomeration hypothesis 351
simultaneous regression 390–92
size of economy, and industry location 280–84, 286–7
size of firm see firm size
size of market see market size
small firms see micro-enterprises
Smith, A. 299
Smith, K. 145
Snickars, F. 174
social cohesion, EU regions 181–4
social perspective, regional innovation systems 143
Song, Y. 119
space as attribute in housing and land markets 119–22
Spain, agency control mechanisms, manufacturing industries 299–304
and innovative activity 305–18
spatial autocorrelation 251–2
spatial externalities and firm growth 346–71
spatial perspectives on entrepreneurship 348–50
spatial proximity
access to R&D, effect on patent production 234–57
and knowledge diffusion 231–3
spatial regimes, the Netherlands 355–8
Spatial Telecommunications Impact Assessment (STIMA) 82
specialization
and firm growth 351
and innovation 141–2
and R&D investment 317–18
spillover losses, urban regions 116–17
see also knowledge spillovers
Stankiewicz, R. 146
STIMA (Spatial Telecommunications Impact Assessment) 82
Stock Exchange listing as control mechanism 298, 303
and R&D investment decision 312
see also listed firms
Strange, W.C. 347, 360
strategy-building, Trento province 337–40
policy recommendation 340–42
succession problems 57–76
Sweden
accessibility to R&D, and patent production 231–57
SMEs 58–9
SME ownership transfer 59–76
Syngenta 161
tacit knowledge exchange costs 355
technological opportunity of sector and R&D investment 312–13, 316
technological and scientific specialization, Trento province 335–7
technology policy, regional 328–30
telecommunications policy and regional disparities, EU 77–102
adoption strategies 80–82
cohesion policy scenario 86
efficiency policy scenario 85–6
indiscriminate policy scenario 84–5
policy options 82–6
territorial impact 86–101
territorial competition 109
policies, EU 129
tertiary education
EU regions 184
Trento province 335
Theil, M. 30
Thisse, J.-F. 262, 263
time distance, and knowledge diffusion 232–3
transaction cost theory 296
transaction costs
functional urban regions 116–17
and location probabilities 263
transition of ownership see ownership transfer
transport infrastructure and peripherality 171, 172, 173–4
Trento competence triangle 2014 339–40
Trento plus 10 (foresight workshop) 337–40
Trento province, Italy 330–42
industrial sector 331–2
innovative performance 333–5
science sector 332–3
strategy-building 337–42
Trevedi, P.K. 258
universities, co-publication with industry 147–9
university R&D accessibility, effect on patent production 242, 249
urban competitiveness 106–31
measurement 110–13
urban growth sources 113–19
urban land price Reading 124–5
as urban competitiveness measurement 111
urban planning 106–10
urban policies, effect on growth 113–19, 128–31
urbanization, Netherlands 358
and ICT firm growth 369
Valentin, F. 165
Van Oort, F.G. 361
Varga, A. 237
Vernon, R. 262
von Thünen, J.H. 261, 262
Wageningen Food Valley 159
Wallsten, S.J. 355
Weber, A. 261, 262
Weibull, J. 232
Weiler, S. 20

welfare effects of regional competition 211–29
White, H. 256
Wooldridge, J.M. 305
Zucker, L. 143