Index

agglomeration economies
competitive advantage (debates and theories) 34–7, 54–5, 76–8, 88
counter and driver forces 56
dataset study 185–7
export characteristics 114
geographic scope (clustering and openness) 57–8, 76–87
major regional competitors 6, 15, 120, 127–8, 157–8
locational characteristics (Paris and Milan) 170–72
performance (London, Paris and Brussels) 163
regional development and competitiveness 99–101
revealed competition, dynamics between regions (2000–10) 137–8
market dominance indicator 142–4
spatial concentration indicator 147
revealed competition benchmarking 18
sectoral scope (specialization and diversification) 57, 62–76
size 17–21, 43–4, 155, 170
welfare effects 40–41
benchmarking Andalucía, Rotterdam–The Hague, Pécs 160–62
analytical framework for interregional competitiveness and smart specialization 1–4
conclusions drawn from 175–8
dataset, see bilateral trade, NUTS-2 regions (dataset for 2000)
using revealed competition 47–8, 148, 151–5
appropriability issues 29
Balassa index 35, 131
benchmarking locational competition 2–3, 9–12, 32, 46–7, 150
bilateral trade, NUTS-2 regions (dataset for 2000) 179–231
export and import trade flows 182, 191, 197, 199–200, 218–24
correction for re-exports 205–7
corrections to trade figures 200–204
estimation of consistent bilateral trade 204–5
freight and flight data 181, 199–201, 217–19
goods and services flows 180, 204–18
methodology (dataset construction) 180, 183, 195–205
2-digit Classification of Products by Activity (1996) 191, 193, 196–7
economic consistency rule 231
sources/national accounts 197, 199
overview and four main steps 179–82
regional and product classification used in dataset 182–95
aggregated product groups 198
overview map 183, 194
product categories 191–5
regional units studied 183–91
regional trade flows, origin and destination 218–24
estimation of intra- and international export trade flows 220–22

249
estimation of intra- and international import trade flows 222–4
final estimation 181, 224–5
logistics centres and transport data 219–20
supply and use tables 181, 182, 199, 200–201, 203, 208–18
production and consumption 210–12
cross-hauling and intranational trade 214–18
exports and imports 213–14
data sources 229–31
international regional trade 228–9
intranational regional and international country trade 226–8
see also place-based strategy; smart specialization policies of regional development; smart specialization, determinants of competitiveness
business strategy economics 10, 11
classical economic growth theory 34, 39
multi-regional competitiveness 99–101, 156 open network approach and 13 overview 12–14 public policies 103–4, 156 regional development paths 37–9, 43–4 small regions, prospects 56–60, 101
dataset, see bilateral trade, NUTS-2 regions (dataset for 2000) diversification and specialization, see specialization/diversification distribution dynamics in revealed regional competition 130–49
<table>
<thead>
<tr>
<th>Index</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>competition among European regions 136–40</td>
<td>free trade 34–5</td>
</tr>
<tr>
<td>specific product markets 138–40</td>
<td>freight and flight data 181, 199–201, 217–19</td>
</tr>
<tr>
<td>total production 136–8</td>
<td>geographical scope of agglomeration economies 57–8, 76–87</td>
</tr>
<tr>
<td>earlier measures and 131–3</td>
<td>global networks 52</td>
</tr>
<tr>
<td>market dominance 130, 140–44</td>
<td>growth 41–5</td>
</tr>
<tr>
<td>overview 15–16, 148–9</td>
<td>Heckscher–Ohlin international trade theory 34</td>
</tr>
<tr>
<td>spatial concentration index 130, 144–6</td>
<td>heterogeneity 16, 35, 176</td>
</tr>
<tr>
<td>economic development, see regional economic development</td>
<td>high-tech manufacturing 73, 81, 82, 84, 109, 122–4, 139–40, 267, 269</td>
</tr>
<tr>
<td>economic geography, see new economic geography (NEG)</td>
<td>human capital 16, 24–5, 42–3</td>
</tr>
<tr>
<td>economic theories 34–5</td>
<td>income inequality 41</td>
</tr>
<tr>
<td>education, innovation and creativity 42–3</td>
<td>industrial sector 118</td>
</tr>
<tr>
<td>embeddedness 28</td>
<td>industrial structure 24–5, 27–9</td>
</tr>
<tr>
<td>entrepreneurship 29–30, 49</td>
<td>informal networking 45</td>
</tr>
<tr>
<td>Europe 2020 policy programme 3, 174</td>
<td>information and communications technologies (ICTs) 24–5</td>
</tr>
<tr>
<td>European Commission policies 1, 3, 31, 46, 104</td>
<td>infrastructure networks and investment 41, 44–5, 153</td>
</tr>
<tr>
<td>European NUTS-2 regions and sectors’ revealed competition 107, 110–26</td>
<td>innovation, see knowledge creation and spillovers; research and development (R&amp;D)</td>
</tr>
<tr>
<td>bilateral trade dataset, see bilateral trade, NUTS-2 regions (dataset for 2000)</td>
<td>Innovation Union 31</td>
</tr>
<tr>
<td>regional characteristics 152–5</td>
<td>input–output relations 61, 71–2, 77–80</td>
</tr>
<tr>
<td>European NUTS-3 regions 45</td>
<td>institutional economics 10, 11</td>
</tr>
<tr>
<td>European Research Area (ERA) 25–6</td>
<td>international networks and competitiveness 52, 156–7</td>
</tr>
<tr>
<td>European Union countries</td>
<td>interventions 29–30, 41, 42, 101</td>
</tr>
<tr>
<td>degree of openness 82–7, 90–92</td>
<td>investments 16, 24, 29, 41, 46, 101</td>
</tr>
<tr>
<td>growth performance and Single Market integration 23–5</td>
<td>knowledge creation and spillovers 25–6, 42–3, 45, 84, 163</td>
</tr>
<tr>
<td>major competitors 107–10, 127–8</td>
<td>input–output relations 60–61, 76, 77, 81, 118, 153</td>
</tr>
<tr>
<td>see also region–sector combinations</td>
<td>Knowledge for Growth expert group 26–7</td>
</tr>
<tr>
<td>evolutionary economics 10, 11, 48, 76</td>
<td>labour market 24, 77, 153, 154</td>
</tr>
<tr>
<td>export characteristic of regions 114–18, 123, 131–3</td>
<td>labour mobility 45</td>
</tr>
<tr>
<td>export data, see bilateral trade, NUTS-2 regions (dataset for 2000)</td>
<td>laissez-faire approach 33</td>
</tr>
<tr>
<td>external economies 36–7, 43–5, 54–5, 76</td>
<td>Lisbon Agenda 3, 33, 48, 174</td>
</tr>
<tr>
<td>financial and business services 17–20, 73, 81, 86–7, 98–9, 109, 123, 124, 128, 138, 157, 162–3, 164–5</td>
<td>localization economies 37, 43–4, 57, 60, 62, 88</td>
</tr>
<tr>
<td>foreign direct investment (FDI) 16, 101</td>
<td>love of variety 40–41</td>
</tr>
<tr>
<td>foreign-owned companies 162</td>
<td></td>
</tr>
</tbody>
</table>
Index

low-tech manufacturing 108, 110, 122–3, 166–7

macroeconomic perspectives 49–51, 215

managerial practices 24–5, 36, 49

manufacturing

high-tech 73, 81, 109, 122–4, 139–40

benchmarking of Munich, Lyon and Helsinki 167, 169

industrial sector 118

low-tech 108, 110, 123, 166–7

medium-tech 17–20, 24, 65–6, 82, 108, 110, 123, 127–8, 140, 162

Milan, Eindhoven and Budapest 167, 168

Rotterdam–The Hague and Pécs 162

openness and clustering in 84–6, 97–8

ranking of competitive position 113, 121–2, 123–4, 126

smart specialization strategy for, and benchmarking 163, 166–70

market dominance 130, 140–44

market potential 93–4

market overlap 15, 16, 105, 126

mass/position/size 17–21, 40, 43–4, 92–5, 107, 110


meso-level economic perspectives 48–9

microeconomic perspectives 10, 11, 46–50

migration 44, 55, 56

neoclassical theory of trade 54

network relations 12–14, 16, 44–5

global networks 52

regional development paths 37–9, 101

revealed competition benchmarking and 47–8, 103, 152

new economic geography (NEG) 10–12, 13, 28

infrastructure networks and investment 41

mechanism of increasing returns to scale 55, 56–7

regional economic development and 34–5, 39–41

welfare effects as focus 40–45

non-market services 81

non-physical networks 45

non-spatial smart specialization concept 25–7

NUTS-2 regions, see bilateral trade, NUTS-2 regions (dataset for 2000); European NUTS-2 regions

‘one-size-fits-all’ versus ‘one-size-fits-one’ approach 1, 47, 174–8

open network approach 13

openness and specialization 76–87

concept and measurement 16, 76–80

regional characteristics used in revealed competition benchmarking 153

sector clustering and openness (descriptive findings) 80–81

European agriculture 82–4, 86

European finance and business 86–7

European manufacturing 84–6

Organisation for Economic Co-operation and Development (OECD) 50

performance 47, 163

peripheral and emerging market economies 20–21, 56–7, 58–9, 60, 70–71, 188–90

benchmarking (Warsaw, Dresden and Thessaloniki) 157, 159, 160

clustering and specialization 92, 94, 97, 100

competition 118–19, 121, 138

export characteristics 114, 115, 117, 118

market dominance characteristics 142–4

place-based strategy

competition as location specific 14, 126, 128–9

evolution of 33

‘one-size-fits-one’ approach 1, 174–8

regions as appropriate domain 1–2, 7–9, 27–9, 174–8
Index

see also bilateral trade, NUTS-2 regions (dataset for 2000)
place-neutral strategies 8
policy-makers 8, 46–7, 51–2, 76
Porter, Michael 49, 77
product specialization 13, 37–9, 89, 154
product variety 40–41
public funding and interventions, see interventions

redistribution policies 33
region–sector combinations cross-section of 4–7
development path conditions 13–14
export characteristics 114–17
major competitors 107–10, 127–8
market dominance indicators 142
population density and output per capita (EU25) 58–60
regional and product classification used in dataset 182–95
revealed competition benchmarking 16–21
locational characteristics 152–5
sector–location combinations, smart specialization 155–73
benchmarking agricultural regions 160–62
benchmarking financial and business services 162–3, 164
benchmarking manufacturing 163, 166–70
benchmarking of Milan, Barcelona and Paris 157–8
benchmarking of Warsaw, Dresden and Thessaloniki 157, 159
detail to illustrate composite factors 170–72
smart specialization strategies for 155–7, 176–7
spatial concentration 147
specialization and diversification distribution 62–76
see also European Union countries; regional competitiveness
regional competitiveness 55, 99–101
benchmarking 2–3, 9–12, 35
economic geography 10, 12
regions as a sites of export specialization 10
regions as a source of increasing returns 10
regions as hubs of knowledge and economic trade 12
theoretical perspectives 11
competitive advantage 34–5, 99–101, 103, 151–2
network determinacy, see revealed competition
regional economic development and 46–52
macroeconomics (Storper’s theory) 49–51
micro- to meso-level conceptualization (Porter’s theory) 48–9
policy makers and 46–7
policy: economic valuation and global networks 51–2
welfare gains/losses and benchmarks 46–7
theoretical perspectives 11
see also region–sector combinations
regional development paths 37–9, 43–4, 88–99
regional economic development 9–12, 33–52
agglomeration economies and externalities 35–7, 43
classical and new economic geography theories 34
competitiveness and 46–52
discourses 48–52
macroeconomics (Storper’s theory) 49–51
micro- to meso-level conceptualization (Porter’s theory) 48–9
policy: economic valuation and global networks 51–2
theoretical frameworks and benchmark studies 2–3
revealed competition and trade networks, a framework 47–8
welfare gains/losses and benchmarks 46–7
growth, means to influence 41–5
agglomeration economies 43
education, innovation and
creativity 42–3
networks and transport costs 44–5
resources 42
specialization, clusters and
concentration 43–4
regional development paths 37–9
theory development 39–41
relatedness 3, 28, 52
research and development (R&D)
24–7, 153, 155
innovation systems issues 29–30
publicly funded interventions 30
regional issues 27–9
resources 34, 39, 41–2, 74
revealed competition
benchmarking 16–21, 32, 151–5
competition as location specific 126,
128–9
definition 105–6, 133–6
dynamics and analysis of 130–49
competition among European
regions 136–40
specific product markets
138–40
total production 136–8
earlier measures and 131–3
overview 148–9
spatial concentration index 130,
144–6
major competitive regions (Europe)
107–10
major competitors for selected
sectors and regions 127–8
NUTS-2 regions and sectors’
revealed competition 110–26
characteristics of economic
structures 111–18
export characteristics 114–18
major competitors for the total
economy 118–22
ranking of competitive position of
regions 112–13
overview 14–15
trade networks and 47–8
Schumpeterian/evolutionary
economics 10, 11, 48, 76
sectoral scope (specialization and
diversification) 57, 62–76
self-sufficiency 13, 38–9, 82, 84, 89
services sector 72–3, 81, 109, 113, 118
small regions 56–60, 100, 101
smart specialization, analytical
framework 1–4
conclusions drawn from 175–8
using revealed competition 47–8,
148, 151–5
smart specialization, determinants of
competitiveness 150–73
benchmarking of revealed
competition 16–21, 32, 151–5
composite indicators 154–5,
170–72
NUTS-2 regional characteristics
152–4
specialization-based methodology
152
overview 172–3
sector–location combinations,
analysis focus 155–7
benchmarking agricultural regions
160–62
benchmarking financial and
business services 162–3, 164
benchmarking manufacturing 163,
166–70
benchmarking of Milan,
Barcelona and Paris 157–8
benchmarking of Warsaw,
Dresden and Thessaloniki
157, 159
detail to illustrate composite
factors 170–72
see also bilateral trade, NUTS-2
regions (dataset for 2000);
smart specialization policies of
regional development
smart specialization, origins 23–7
smart specialization policies of regional
development 23–32
in practice (Europe 2020 agenda)
31
innovation systems issues 29–30
origins of smart specialization 23–7
non-spatial concept 25–7
transatlantic productivity gap
23–5
regions as appropriate domain 1–2,
7–9, 27–9, 174–8
Index

sustainable regional development strategy 44

Theil index 64–5, 67, 72, 75, 154
trade costs 41
trade dependent diversification 13, 38, 39, 89
trade flows, see bilateral trade, NUTS-2 regions (dataset for 2000)
trade networks, see bilateral trade, NUTS-2 regions (dataset for 2000); clustering and specialization; network relations
traditional concept 14–15, 48
transatlantic productivity gap 23–5
transport (freight and flight) data 181, 199–201, 217–19
transport costs 44–5, 56
urban growth theory 10, 11
urbanization economies 36, 37, 57, 61
welfare effects 40–41, 44, 50
non-market services 81

World Bank, major policy reports (2009) 8, 76

see also bilateral trade, NUTS-2 regions (dataset for 2000); smart specialization: determinants of competitiveness
spatial concentration 62–8, 71–6, 130, 144–6
specialization/diversification distribution 62–76
composition of European production structure and specialization 65–71
concept and measurement of sector concentration 62–5, 71–6
by deviation from the average 74–6
finance and business services 73
manufacturing 73–4
resource-based sector 74
services sector 72–3
regional development paths 37–9
used in revealed competition benchmarking 153–4
Storper, Michael 49–50
strong and medium-sized regions 19, 20, 116–17, 142, 187–8
‘structural’ and ‘intrinsic’ effects 24–5
supply chain specialization 13, 38–9, 77, 89, 153