

Index

- 100 Resilient Cities program (100RC)
 - 111–12, 122
- adaptability
 - contrast
 - with adaptation 46, 57, 74–5, 208
 - with vulnerability 41, 43, 53
 - and network structures 213
 - of regional economies
 - differences in 206–7, 209–13, 216
 - policy affecting 206
 - and resilience 192–3, 203, 208
 - of SMEs
 - in Denmark 51–3
 - development paths 49
 - new growth paths 45–7, 53
 - relationship with resilience and vulnerability 47–8
 - strategic characteristics
 - influencing 47
- adaptation
 - contrast with adaptability 46, 57, 74–5, 208
 - as critical to resilience 3
 - cultural norms and habits
 - influencing 212
 - and network structures 213
 - new growth paths developed through 145
 - and Path Dependency framework 198–9
 - regional 196, 206, 210, 215
 - ‘adaptive cycles’ 3, 67, 127–8
 - ‘adaptive resilience’ 73–4
 - Anderson, A.R. 12, 22–3, 145, 147, 149, 152, 158
 - Atlanta, City of 111–12, 121–2
 - automotive sector
 - research context 55–6
 - researching sectoral resilience 57–8
 - resilience debates 56–8
 - study conclusion 68–9
 - systemic response to shocks
 - ecosystem dynamics of firm demographies 59, 67–8
 - focus on innovation and upgrading 59, 65–6, 119–20
 - intra-sectoral collaboration 68–9
 - market reorientation 59, 62–3
 - relocation of production 59, 66–7
 - strategic corporate reorganization 59, 64–5
 - value chain optimization 59, 63–4
 - trends in GDP and automotive sales
 - credit boom 61
 - great recession and recovery 61–2, 68
 - recession in early 1990s 60–61
 - relationship between 58–62
- Bailey, D. 57, 64, 68, 131, 162
- Balland, P.A. 207–8, 210–211, 213, 215
- Bathelt, H. 76, 86, 93
- Bentley, G. 63–5, 67, 69, 164, 172
- ‘Big Push’ Theory 90–92
- Bonanno, G. 12, 18, 20–21
- Boschma, R. 46, 57, 68, 72, 75, 81, 92–3, 175, 192–4, 196–7, 201, 204, 206–8, 210, 212–13, 215–16
- Bristow, G. 70, 74, 163, 197–8, 207–8, 210–213
- Brooks, C. 125, 129, 160, 164
- Christopherson, S.J. 74, 112, 116, 121, 127, 177, 207–8, 210
- cities
 - city–university partnerships 119–20
 - as ‘complex adaptive systems’ 195
 - differences in resilience 70–71
 - disputed dualisms 86
 - English and Welsh
 - analysis 80–85

- employment growth 80–82
- long-term resilience capacity 84–6
- methods 78–80
- ‘old economy’ employment 81, 83–4
- evolutionary growth theory 71–8
- future research directions 87
- global 121–2
- growth paths 70–71, 73–7, 81, 85–8
- historical path-dependent knowledge bases 72–3
- as inherently complex and unique 219
- reinvention 76–7, 79, 81–2, 85–7
- replication 75–7, 79, 82, 85–7
- resilient 109–15, 121–2, 208, 219
- smart 110–111, 113, 115–21
- Turin 188
- in typology of LEP areas’ experience of recession 165–6
- see also* Sheffield City Region (SCR)
- civic entrepreneurship *see* social entrepreneurship
- ‘civic IoT’ (Internet of Things) 115
- civic leadership
 - as common feature within England and Wales 126
 - concept of 129–30
 - conceptual framework 131–2
 - definition 125
 - different interpretations of 140
 - formation of 131–2
 - and governance 130–133
 - and LEPs 126–7
 - and resilience 129–33, 140–141
 - in Sheffield City Region
 - barriers to 136–7
 - institutional and political parameters of 133–5
 - leading long-term planning and collaboration 136–40
 - need for diversification of stakeholders 139–40
 - strong strategic vision through 136
- Clark, J. 109–10, 113, 116, 121
- collaboration
 - civic leaders as agents for 126
 - intra-sectoral, between firms 68–9
 - leading long-term 136–40
 - within sectoral systemic response to shocks 59
 - university 65–6, 115, 119, 139–40
- collective actions 150, 152–4, 156–7
- commercialization 113, 117–20
- community culture
 - ability to influence entrepreneurial activity 147
 - definition 147
 - and economic and entrepreneurial resilience of localities
 - average change in 153
 - data and methods 150–151
 - hypothesized relationships
 - between 144–5
 - links between 142–3, 156, 158–9
 - results 152–5
 - as factor influencing economic resilience 156
 - future research directions 159
 - measures
 - adherence to social rules 149–50
 - collective actions 150
 - embracement of employment and investment in education 147–8
 - femininity and caring activities 149
 - social cohesion 148
 - recommendations for 158, 221
 - in typology of impact of
 - economic downturn on local entrepreneurial activity 146
- community leadership 131–2
- Complexity Theory 195, 197–8, 203
- Conservation of Resources (COR) theory 13–14, 22–3, 25
- Conservative-Liberal Democrat coalition government 126, 128–9
- conservative resilience 163, 166, 168–9, 172
- Cooke, P. 65, 116, 201
- Cowling, M. 30, 39, 41, 45, 145
- credit boom 61
- crises *see* Greek recession; London 2011 riots; SMEs (small and medium-sized enterprises)
- culture
 - community 142–3, 145–59, 221
 - cultural lock-in 104–5, 107

- cultural norms 212–13
- of entrepreneurship
 - in Greece 31–3, 35–8, 40
 - of local economies 76–7, 85, 87
- of flexibility 42
- influence on resilience 220–221
- influencing how shocks affect entrepreneurial activity 144–5
- of resilience 67

- Danish SMEs 49–53
- Davidsson, P. 30–31, 142, 148, 155
- Dawley, S. 30, 125–7, 133, 137, 139, 141, 161–2, 172, 177, 200–201, 212
- Derickson, K.D. 1–2, 204, 207, 212, 214
- development paths
 - of Danish SMEs 50–53
 - model of, through shock periods 48–9
 - and path dependency 195, 200
 - ‘plucking model’ 73
 - return on equity for SMEs with different 52
 - working definition for 50
- Di Caro, P. 178–9
- digital divide 115
- digital economy 71, 78–9, 87
- digital firms 78–85, 87
- digital inclusion 115
- Digital Revolution 84–6
- digital technologies 71, 81, 84, 93
- diversification 100–101
- Doern, R. 14
- Dutch Disease 91–2

- economic recovery strategies 17, 19–20
- economic resilience *see* resilience
- economic shocks *see* shocks
- ecosystem dynamics of firm
 - demographics 59, 67–8
- education, investment in 147–8, 152–8, 213, 221
- emotional distancing 11, 17, 21, 23, 25
- employment
 - embracement of 147–8, 153–4, 156–7
 - and entrepreneurial activity 152, 157–8
- growth in Welsh and English cities 79–85, 87
- in Italian provinces 176, 178–82, 184–90
- levels in Greece 38
- in offshore oil industry, Canada 97–102, 104–5
- as positively related to state centralization of fiscal responsibility 211
- SMEs accounting for 41
- in typology of LEP areas’ experience of recession 165–6
- endogenous or exogenous invention 71, 80
- entrepreneurial resilience
 - and community culture influence on 142–3, 147
 - links between 142–3, 156, 158–9
 - measures 147–50
 - data and methods 150–152
 - different routes to achieving 158, 220–221
 - entrepreneurial activity changes in 153, 157–8 and economic resilience 143–6, 152
 - entrepreneurial bubble economies 146
 - entrepreneurial deserts 146
 - isolating influence of 151
 - measurement of 150
 - negative relation 152
 - self-interested masculine approach 152
 - typology of impact of economic downturn on 146
 - and entrepreneurship 155–6, 219–20
 - in face of economic downturns 142, 146, 159
 - factors influencing 154–6
 - local social values fostering 213
 - results 152–5
 - study conclusions 155–9
- entrepreneurship
 - in cities 84
 - as crucial for resilience to shocks 188
 - and entrepreneurial resilience 155–6, 219–20
 - functional lock-ins inhibiting 199

- and LEPs 161, 164, 169, 171
- of local economies 74, 76–7
- local institutional arrangements in Italy 188–90
- policy-relevant lessons 220–221
- resilience in recessionary crisis
 - empirical focus and methodology 32–4
 - findings 34–8
 - formal institutions 29–31
 - informal institutions 31–2
 - literature review 29
 - perceptions changing as result of crisis 32
 - research context 28–9
 - study conclusions 38–40
- resilience strategies in riot crisis
 - findings 16–22
 - future research directions 26
 - implications of findings 26–7
 - limitations of study 25–6
 - literature review 12–14
 - methodology 14–16
 - riots and small businesses 11–12
 - study discussion 22–5
 - study overview 25–6
- in resource-driven economies 89–90, 92, 94–7, 101–8
- and SMEs 46–7, 142
- social/civic 115–20, 127–8
- equilibrium resilience *see* conservative resilience
- equilibrium thinking 209–10
- European Commission 30, 32–3, 38
- Evenhuis, E. 200, 202
- evolutionary approaches
 - aims 192
 - application to local and regional economies 192
 - Complexity Theory 195, 197–8, 203
 - Generalised Darwinism 194, 196–7, 203
 - as hot topic 192
 - Path Dependency Theory 195, 198–204
 - presumption of continuous renewal 193, 203
 - theoretical frameworks
 - core tenets of 194–5
 - drawn upon 193
 - evolutionary economic geography 192, 206, 209
 - evolutionary growth theory 71–8
 - evolutionary resilience 162–3, 168, 170–171, 173, 198, 204
 - exogenous shocks *see* shocks
 - external shocks *see* shocks
 - Feldman, M. 76, 116, 121
 - femininity and caring activities 149, 152–4, 156–7
 - financial risks 44–5
 - firm demographics, ecosystem dynamics of 59, 67–8
 - Florida, R. 116, 145, 148, 155
 - Frenken, K. 92–3, 194, 196–7, 204, 206
 - ‘gain spirals’ 13, 22
 - GDP
 - growth, in Newfoundland, Labrador and Canada 97, 99–100, 107
 - recessions
 - fall in Italian *Mezzogiorno* 99–100
 - fall in UK 70
 - and UK automotive sector 58–62
 - general purpose technologies (GPTs) 71–2
 - Generalised Darwinism 194, 196–7, 203
 - governance
 - and civic leadership 125–6, 130–133
 - from Complexity Theory perspective 197, 199
 - contributing to local economic resilience 92
 - distinction with government 130
 - and economic strategies 160–161
 - innovative 111–15
 - in Italy 186, 190
 - and LEPs 128–9, 133, 137–8, 140, 161, 169
 - and resilience 131, 220–221
 - Grabher, G. 46, 74, 86, 92, 199–202
 - Greek economy 28, 32–3, 38–9
 - Greek recession
 - empirical focus and methodology 32–4
 - endogenous and exogenous change 28

- findings
 - analysis 34–5
 - government spending 39
 - institutional responses to crisis 35–7
 - post-crisis institutional development 37–8
- formal institutions
 - definition 29
 - impact on informal institutions 35, 39–40
 - interaction with informal institutions 38
 - purpose 29
 - reforms 39
 - in times of crisis 30–31
 - weak 30
- informal institutions
 - deterioration of 38–40
 - impact of formal institutions 35, 39–40
 - importance of understanding 31
 - interaction with formal institutions 38
 - reforming 31–2
 - interventions of policymakers 28–9, 36, 38–9
 - literature review 29
 - profile of participants 34
 - research context 28–9
 - study conclusions 38–40
 - VAT increases 31, 36
- gross value added (GVA) 134, 150, 152–6, 204
- growth strategies
 - concept of resilience 162–4
 - emergence of LEPs in recession conditions 164–7
 - resilience of 160–161
 - study conclusions 171–3
 - treatment of resilience in strategic economic plans 167–71
- Hambleton, R. 130–132, 136, 139
- Hassink, R. 70, 75, 86, 92, 199–200, 202, 206–7, 209, 211, 214, 216
- hazard risks 44
- Healy, A. 163, 197–8, 207–8, 210–213
- Hobfoll, S.E. 12–13, 16, 20, 22–3
- Hofstede, G. 143, 147, 155
- Huggins, R. 31, 128–9, 137–8, 142, 147, 151, 176, 178, 209, 212–13
- ‘hysteresis’ 57, 73–4, 163, 208
- innovation
 - adaptability achieved through 48
 - bolstering regional 139
 - concept of sectoral system of 69
 - as factor influencing economic resilience 152, 154, 157
 - innovative governance 111–15
 - institutional 109–10, 112–13
 - as integral to fostering dynamic economy 219
 - and lock-in 93, 95, 201
 - methods and approach 111
 - new growth paths developed through 145
 - open 110, 115–20, 122
 - relationship with resilience 109–10
 - technological 71, 76
 - as underlying driver of economic change 72
 - and upgrading 59, 65–6, 119–20
 - urban 116–18
 - networks 120–122
- IPPR North 162, 167, 172
- Italy
 - empirics
 - data and preliminary evidence 179–86
 - estimates 186–7
 - interpretation of results 187–9
 - employment
 - data sample 179–80
 - female 176, 179–80, 182–7, 189–90
 - in southern regions 178
 - total 180–182, 184–90
 - future research directions 190
 - Mezzogiorno* 178, 189
 - regional disparities 178–9
 - research scope 176
 - resilience
 - economic 178–9
 - and local development 176–8
 - results of study 189–90
- Lee, N. 41, 43, 46, 177
- LEPs *see* Local Enterprise Partnerships (LEPs)

- liquidity risk 44
- local development
 - community culture 142–3, 147–50
 - data and methods 150–151
 - economic resilience
 - and entrepreneurial activity 143–6, 152
 - and entrepreneurial resilience 147–50
 - and resilience 176–8
 - results 152–5
 - study conclusions 155–9
- local economic resilience in Italy *see* Italy
- Local Enterprise Partnerships (LEPs)
 - as collaborative agencies 139, 161
 - emergence of
 - in recession conditions 164–7
 - in UK 126, 128–9
 - as example of civic leadership 126
 - as having no statutory role 134
 - ongoing definition of role 141
 - purpose of 129
 - and regional-university partnerships 139
 - resilience framework 167–72
 - of Sheffield City Region
 - executive support roles 138
 - governance changes 137–8
 - Growth Plan 134, 136
 - as lever for place leadership 136
 - role as leader in 140
 - role in encouraging economic resilience 138
 - and short-termism 137
 - significant problem for 134
 - two tensions 133
 - strategies
 - decision-making 132
 - development of long-term 138–9
 - strengths and weaknesses 129
 - typology of areas' experience of recession 165
 - Yorkshire 134–5
- localist agenda 127–9
- lock-in
 - cognitive 199, 202, 212
 - in context of regional economic development 199–200
 - continued economic 103
 - cultural 104–5, 107
 - dynamics 101
 - effects of resource extraction 90
 - functional 199–202
 - governance capacities 131
 - of historically outmoded technologies 75
 - mechanisms 200–202
 - networks possibly leading to 213
 - of old industries 76–7, 81
 - political 199, 202, 211
 - potential of extractive economies 93
 - processes
 - negative 93–5, 103, 206, 208
 - positive 93–5
 - retaining notions of equilibrium in 210
- lock-out
 - governance capacities 131
 - potential of extractive economies 93, 101
 - processes
 - negative 93–5, 103
 - positive 93–5
 - regional 100–101
- London 2011 riots
 - context 11–12
 - definition of riots 11
 - methodology 14–16
 - recovery strategies 16–22
 - study discussion and conclusions 22–7
- 'loss spirals' 13, 23, 25
- MacKinnon, D. 1–2, 193, 196–7, 204, 206–7, 212, 214
- managerial leadership 131–2
- market reorientation 59, 62–3
- Martin, R. 3, 30, 32, 57–8, 67–8, 70, 73–6, 80, 84, 92–4, 97, 127, 131, 144–5, 151, 161–3, 166–7, 169, 173, 175, 177–8, 180, 192–5, 197, 199–202, 206–10, 214
- Morgan, K. 65, 126, 200
- Nelson, R.R. 58, 65, 194
- networks
 - distributed, for policy diffusion 111–15
 - knowledge 85, 197

- local economic 75–6, 86
- public sector 118–19
- regional resilience
 - as determinant of 57
 - role in 212–13, 216
- social
 - LEPs challenged on effectiveness
 - as nodal sites of 129
 - as recovery strategy 16–17, 22–3
- urban innovation 120–122
- Newfoundland and Labrador (NL)
 - cultural lock-in 104–5
 - economic decline and growth 90, 97–100, 107
 - employment growth 102
 - exposure to shocks and vulnerability 100, 107
 - GDP growth 99
 - illustration of difficulty embarking on new economic paths 107
 - industry structure 103–4
 - lock-in and lock-out processes 101, 103
 - offshore exploration and production
 - licenses 98, 107
 - reaction to shocks and diversification 100–101, 107
 - requirements 107–8
 - sparse investment environment 105–7
- offshore oil industry *see* Newfoundland and Labrador (NL)
- open innovation 110, 115–20, 122
- organisational resilience 42–9
- path dependency
 - adaptation leading to 75
 - of cities in England and Wales 81, 87
 - combination of high replication and low reinvention 76–7, 86
 - dimension to institutions 212
 - and equilibrium thinking 208, 210
 - of historical trajectories of knowledge bases 72–3
 - local bodies able to overcome or reinforce 129
 - negative, as hindering adaptation 206
 - and path creation 92–4, 97–101
 - real opportunity costs of 110
 - resilience as process of 74, 173, 208
 - in resource-driven economies 90–92
 - shaping development of economies 219
 - tendency to equate regional resilience with avoidance of 215–16
- Path Dependency Theory 195, 198–204
- paths/pathways
 - breaking, in resource economies 94–7
 - creation
 - challenges of, in resource-driven regional economies 101–7
 - cross-sectoral 126
 - entrepreneurial economies
 - exhibiting 219
 - harnessing 218
 - need for strategy for 220
 - new, in offshore wind 212
 - and path dependency 92–4, 97–101
 - development
 - model of, through shock periods 48–9
 - return on equity for SMEs with different 52
 - working definition for 50
 - growth
 - ability to bounce back to previous 70
 - adaptability as developing new 46, 57, 208
 - adaptation as dealing with
 - changes in preconceived 46, 57, 208
 - capacity of regions to develop 212
 - of cities 70–71, 73–7, 81, 85–8
 - continuation of, in industry sectors 58
 - in definition of regional economic resilience 208
 - importance of history in development of 210, 216
 - new, through adaptation and innovation 145
 - renewal of 57

- SMEs' ability to create new 45–7, 50–53
- plasticity 204
- personal recovery strategies 17, 20–22, 25–6
- phenomenological research approach 14–16
- planning
 - City of Atlanta's resilience 112
 - leading long-term 136–40
 - participatory 114–15
 - uncertainty leading to difficulties with 36
- 'plucking model' 73
- policy
 - according to budget flexibility 30–31, 39
 - City Region-level 138
 - from Complexity Theory perspective 197–8
 - design, innovations observed in 110
 - diffusion, distributed networks for 111–15, 122
 - lessons for new path creation and entrepreneurship 220
 - neglecting, at spatial levels 211–12
 - in oil and gas industry 99–100
 - Regional Development Agencies 128, 137
 - role in relation to shocks 30, 218, 220
 - support for specific industrial sectors 219
 - for town expansion schemes 81, 84
- polymakers
 - and concept of resilience 162, 214, 217–18
 - implications of findings in resilience of small businesses 26–7
 - interventions, in Greek recession 28–9, 35–6, 38–9
 - systems approach recommendation for 219
- political leadership 125, 131–2, 136, 199
- post-crisis recovery strategies
 - economic 17, 19–20
 - investing in additional resources 16, 22–3
 - personal 17, 20–22, 25–6
 - process model 24
 - social 16–19
- Primary Urban Areas (PUAs) 78–9
- product price risks 44
- production relocation 59, 66–7
- Pugalis, L. 129, 160–162, 164, 172
- recessions
 - in early 1990s 60–61
 - global financial crisis
 - adaptability to 30–31
 - automotive sector 61–2, 68
 - bringing economic volatility to fore 1
 - effect on cities 136
 - emergence of LEPs 164–7
 - fall in UK GDP 70
 - impact on Canadian regions 56
 - impact on Greece 30–31, 33, 35–40
 - impact on Italy 175, 178–80, 185–90
 - impact on SMEs 44–5, 49–53
 - resultant studies on economic resilience 92, 160
 - Sheffield City Region 127, 136
 - urban and regional economies 73
 - Great Recession (1920–1933) 70
- Regional Development Agencies (RDAs) 126, 128–9, 134–5, 137, 164
- regional resilience
 - characteristics 57
 - and civic leadership 129–33
 - and governance 125–7
 - leading long-term planning and collaboration 136–40
 - in Sheffield City Region 133–5
 - study conclusions 140–141
 - civic-minded stakeholders 130, 141
- Complexity Theory perspective 197–8, 203
- and concept of resilience 207–9, 214, 216
- criticism of methods used to study 214–15
- definition 56, 208
- determinants 57
- as dynamic process 162
- evolutionary approaches to 192–5

- evolutionary perspective 203, 206, 215–16
- framework 206–7, 209
- interplay with sectoral resilience 68
- and localist agenda 127–9
- micro-categorical explaining factors 177
- need for more discussion and exploration 214
- ontological sources of ideas for conceptualising 73
- and Path Dependency framework 198–204
- and regional adaptability
 - equilibrium thinking 209–10
 - neglecting state and policy at spatial levels 211–12
 - role of social capital and networks 212–13
 - use of concept to explain differences in 216
- relationship with sectoral resilience 64
- research on 112
- similarity to sectoral resilience 57
- through urban innovation networks 120–122
- reinvention 76–7, 79, 81–2, 85–7
- replication 75–7, 79, 82, 85–7
- resilience
 - approach 175, 177, 221
 - concept of 1–2, 70, 162–4, 207–9, 214, 216
 - conservative 168–9
 - of Danish SMEs 49–53
 - debate 2–4, 56–8, 219–20
 - definitions 12, 56, 68, 74, 162, 214
 - economic
 - community culture and entrepreneurial resilience 147–59
 - and entrepreneurial activity 143–6, 152
 - evolution of, in cities 70–88
 - evolutionary perspectives on, in regional development 192–204
 - local, in Italy 175–90
 - open innovation,
 - commercialization and social entrepreneurship 115–20
 - within regions 127–9
 - in resource-driven economies 89–108
 - in entrepreneurship
 - in recessionary crisis 28–40
 - strategies for 11–27
 - evolutionary 170–171
 - of growth strategies 160–161, 164–73
 - influence of culture on 220–221
 - and innovation 109–10
 - innovative governance 111–15
 - methods and approach 111
 - open 115–20
 - through urban innovation networks 120–122
 - lack of definitional clarity 1–2, 214
 - and local development 176–8
 - organisational 42–9
 - reflective summary 217–21
 - relation with shocks 56–7, 73–4, 85–6, 127, 162, 217
 - relationship with resources 12–13, 17–18, 22, 24–6, 218, 220
 - resistant 169–70
 - thinking 173, 190, 212, 217–18, 221
 - treatment of, in strategic economic plans 167–71
 - see also* regional resilience; sectoral resilience
 - resistant resilience 163, 169–70
 - resource-driven economies
 - entrepreneurship
 - and challenges of path creation 101–7
 - and path-breaking 94–7
 - path dependency
 - and economic resilience 90–92
 - and path creation 92–4, 97–101
 - research context 89–90
 - study conclusion 107–8
 - resources
 - abundance 12–13, 17–18, 20–27
 - and adaptability of SMEs 47
 - in analytical questions 16
 - buffers against stress 13, 18, 21, 25–6
 - definition 16
 - economic 17, 19–20

- and 'escalating commitment' 202
- focus on adaptation or adaptability 46
- investing in additional 16, 22–3
- and LEPs 128–9, 139, 168, 172
- limited, in SMEs 41, 43, 45–6, 51, 53
- losses 13, 16, 19–20, 22–5
- motivation to create 13
- personal 17, 20–22, 25–6
- relationship with resilience 12–13, 17–18, 22, 24–6, 218, 220
- role in recovery 11–13, 16
- seeking to create new 17, 22–5
- social 16–19
- use of existing 17, 22–4
- riots *see* London 2011 riots
- risk types 43–5
- risks
 - of angel investment 106
 - of entrepreneurship 105
 - of LEPs 133, 169–70
 - of shocks 92
- Rodríguez-Pose, A. 147, 149, 158, 212
- 'rules of the game' 29, 36–7
- Schamp, E.W. 67, 194, 196
- Schumpeter, J.A. 72–3, 85
- sectoral resilience
 - actions of individual companies 56, 58, 68
 - Bosch's strategy 63–4
 - innovation and upgrading 65–6
 - policy response requirements 68–9
 - regional resilience
 - interplay between 68
 - relationship between 64
 - similarity between 57
 - researching 57–8
 - spatial impact 67–8
- Sheffield City Region (SCR)
 - civic leadership in 133–5
 - geography and mixed economic history 133
 - governance challenge facing 133
 - importance of partnerships 140–141
 - lack of sector specialisation 133–4
 - problem for LEP 134
 - regional resilience in 136–40
- shocks
 - absorption phase 175, 178
 - and adaptation 3
 - affecting entrepreneurial activity 144–5
 - affecting firms 128
 - and city resilience 81, 111–12
 - cyclical exogenous commodity price 89–90
 - diverse economic bases lessening impacts of 219
 - dynamic ability to respond to 113
 - and entrepreneurial deserts 146
 - exogenous 107
 - exposure to 100
 - firms developing strategies to cope with 58, 68
 - governments and entrepreneurs seeking to minimise 221
 - human perceptions for coping with 215
 - impacting national economies 78, 160
 - in Italy 176–8, 185–6, 188–90
 - and LEPs 126, 139
 - and local economies 74, 77, 144–5
 - Newfoundland as vulnerable to 107
 - no 'one size fits all' solution to 218
 - reactions to 100–101
 - recessionary 57, 70, 73, 80
 - regions with capacity to resist 56
 - relation with resilience 56–7, 73–4, 85–6, 127, 162, 217
 - and resilience capacity 77–8, 92
 - resistance, recovery and renewal 163
 - role of policy 30, 218, 220
 - sectoral systemic response to 59, 62–8
 - seeking to respond positively to 221
 - SMEs' ability to recover from 4, 41–2
 - Danish case study 48–53
 - organisational resilience 42–8
 - technological 71–2, 81, 84
 - types of 109
 - and urban economies 85, 87
 - vulnerability and resistance to 92
 - Simmie, J. 3, 30, 32, 57, 70, 72, 75–6, 84, 86, 93, 127, 131, 145, 193, 208
 - 'slow burns' 207
 - small businesses
 - in Greece

- empirical focus and methodology 32–4
- findings 34–8
- formal institutions 29–31
- informal institutions 31–2
- literature review 29
- profile of participants 34
- research context 28–9
- study conclusions 38–40
- in London 2011 riots
 - abundance of resources 25
 - investing in additional resources 22–3
 - methodology 14–16
 - post-crisis recovery strategies 16–22
 - profile of participants 15
 - research context 11–12
 - resilience 12–13, 220
 - role of policymakers 26–7
 - vulnerability 19, 22–4
- Smallbone, D. 12, 26, 28–30, 32, 35, 39, 41, 45–6
- smart cities 110–111, 113, 115–21
- SMEs (small and medium-sized enterprises)
 - in Denmark, case study 49–53
 - organisational resilience
 - adaptability 45–7
 - model of development paths
 - through shock periods 48–9
 - no general definition of concept 42–3
 - relationship with vulnerability and adaptability 47–8
 - vulnerability 43–5
- research context 41–2
- study conclusions 53
- social capital
 - influence on entrepreneurial resilience 155
 - long-term development 85
 - and resilience capacity 85
 - role in regional resilience 212–13, 216
- social cohesion 148, 152–4, 156–7
- social entrepreneurship 115–20, 127–8
- social recovery strategies 16–19
- social rules, adherence to 149–50, 152–4, 156–7
- Staples Theory 91
- state, neglect of 211–12
- Storper, M. 121, 147, 149, 158, 212
- strategic corporate reorganization 59, 64–5
- strategic economic plans (SEPs)
 - future research directions 173
 - government view of 165
 - helping codify role of LEPs 164–5, 172
 - nature of 161
 - resilience of
 - conservative 168–9
 - evolutionary 170–171
 - resistant 169–70
 - results of assessment of 172
- strategic risks 44–5
- Sunley, P. 57, 67, 70, 74–6, 84, 92–4, 97, 127, 131, 144, 151, 162–3, 175, 177, 192–3, 195, 197, 200–202, 206–7, 209–10, 214
- supply chain risks 44–5
- Thompson, P. 129, 142, 146–9, 178, 209, 212–13
- Townsend, A.R. 129, 161, 166
- university collaboration 65–6, 115, 119, 139–40
- upgrading and innovation 59, 65–6, 119–20
- urban innovation networks 120–122
- value chain optimization 59, 63–4
- Vorley, T. 12, 28, 32, 36, 39, 116, 125, 127, 134, 145, 188, 209
- vulnerability
 - definitions 43
 - exposure to 100
 - of owner-managers in times of crisis 19, 22–4
 - and resistance to shocks 92
 - of SMEs
 - contrast with adaptability 41, 43, 53
 - costs associated with managing 53
 - in Denmark 51–3
 - development paths 48–9

- relationship with resilience and
adaptation 47–8
risk types 43–5
- Weick, K.E. 23, 198, 202
- Wennekers, S. 142–3, 145, 149–50
- Williams, N. 12, 28, 31–2, 36, 39, 116,
125, 127–8, 133–4, 137–8, 145,
162, 188, 209
- Wolfe, D. 70, 96, 131
- Yorkshire LEPS 134–5

