## Index

ACBA 141, 143, 145  
advertising agencies 16  
Agenda 21 14  
agriculture 14, 51, 154–63, 167, 175, 177  
Alliander 90  
Alpine Network of Protected Areas (ALPARC) 172  
Amazon 90  
Anchorage, Sustainability and Localisation of Innovation see ASLInn programme  
anchoring processes 20–21, 103, 106–8, 110, 114–16, 119, 129, 146, 154, 157–8, 223  
Araujo, P. 6, 8, 12, 13, 20, 48  
architects 50, 53–8, 60, 78  
ARESE 219–21  
Asheim, B. 57  
ASLInn programme 2, 29, 46–8, 119, 129, 142–3, 146, 170  
Aspers, P. 153  
asset management companies 41, 43–4  
Association of Southeast Asian Nations (ASEAN) 225  
Atlantic Nautical Network 10, 214, 216, 218–23  
Autodesk 90  
awareness-raising 33, 57, 60  
Aydalot, P. 248–9  
Bairro Alto creative district 127–30, 144–9  

<table>
<thead>
<tr>
<th>Term</th>
<th>Page(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACBA</td>
<td>141, 143, 145</td>
</tr>
<tr>
<td>accountability</td>
<td>105</td>
</tr>
<tr>
<td>ACLIMA cluster</td>
<td>194–5</td>
</tr>
<tr>
<td>acquisition</td>
<td>115–16, 118</td>
</tr>
<tr>
<td>activism</td>
<td>10, 39</td>
</tr>
<tr>
<td>Activity Tracks</td>
<td>109</td>
</tr>
<tr>
<td>adaptation</td>
<td>2, 68, 81, 97, 171–2, 174, 176, 190, 201–2, 205</td>
</tr>
<tr>
<td>ADEME</td>
<td>58</td>
</tr>
<tr>
<td>advertising agencies</td>
<td>16</td>
</tr>
<tr>
<td>Agenda 21</td>
<td>14</td>
</tr>
<tr>
<td>agriculture</td>
<td>14, 51, 154–63, 167, 175, 177</td>
</tr>
<tr>
<td>Alliander</td>
<td>90</td>
</tr>
<tr>
<td>Alpine Network of Protected Areas (ALPARC)</td>
<td>172</td>
</tr>
<tr>
<td>Amazon</td>
<td>90</td>
</tr>
<tr>
<td>Anchorage, Sustainability and Localisation of Innovation</td>
<td>see ASLInn programme</td>
</tr>
<tr>
<td>anchoring processes</td>
<td>20–21, 103, 106–8, 110, 114–16, 119, 129, 146, 154, 157–8, 223</td>
</tr>
<tr>
<td>Araujo, P.</td>
<td>6, 8, 12, 13, 20, 48</td>
</tr>
<tr>
<td>architects</td>
<td>50, 53–8, 60, 78</td>
</tr>
<tr>
<td>ARESE</td>
<td>219–21</td>
</tr>
<tr>
<td>Asheim, B.</td>
<td>57</td>
</tr>
<tr>
<td>ASLInn programme</td>
<td>2, 29, 46–8, 119, 129, 142–3, 146, 170</td>
</tr>
<tr>
<td>Aspers, P.</td>
<td>153</td>
</tr>
<tr>
<td>asset management companies</td>
<td>41, 43–4</td>
</tr>
<tr>
<td>Association of Southeast Asian Nations (ASEAN)</td>
<td>225</td>
</tr>
<tr>
<td>Atlantic Nautical Network</td>
<td>10, 214, 216, 218–23</td>
</tr>
<tr>
<td>Autodesk</td>
<td>90</td>
</tr>
<tr>
<td>awareness-raising</td>
<td>33, 57, 60</td>
</tr>
<tr>
<td>Aydalot, P.</td>
<td>248–9</td>
</tr>
<tr>
<td>Bairro Alto creative district</td>
<td>127–30, 144–9</td>
</tr>
<tr>
<td>double-layered approach to sustainable innovations in</td>
<td>138–44</td>
</tr>
<tr>
<td>sustainability challenges</td>
<td>130–38</td>
</tr>
<tr>
<td>bankruptcy</td>
<td>241</td>
</tr>
<tr>
<td>banks</td>
<td>40–44 see also sustainable finance</td>
</tr>
<tr>
<td>barriers to entry</td>
<td>110, 161–2, 208</td>
</tr>
<tr>
<td>Barroeta, B.</td>
<td>8, 10, 20</td>
</tr>
<tr>
<td>Basque Energy Agency</td>
<td>see EVE</td>
</tr>
<tr>
<td>Basque Institute of Statistics</td>
<td>see EUSTAT</td>
</tr>
<tr>
<td>Batimat</td>
<td>57</td>
</tr>
<tr>
<td>Beckert, J.</td>
<td>153</td>
</tr>
<tr>
<td>Bélicard, J.</td>
<td>14, 16</td>
</tr>
<tr>
<td>Benêteau</td>
<td>217</td>
</tr>
<tr>
<td>biodiversity</td>
<td>51, 156</td>
</tr>
<tr>
<td>Blue Flag</td>
<td>220–21</td>
</tr>
<tr>
<td>boats</td>
<td>see nautical industry</td>
</tr>
<tr>
<td>Botanical Garden</td>
<td>80</td>
</tr>
<tr>
<td>BRICS group</td>
<td>67</td>
</tr>
<tr>
<td>broadband</td>
<td>93</td>
</tr>
<tr>
<td>Building Research Establishment, Environmental Assessment Method (BREEAM)</td>
<td>53, 113</td>
</tr>
<tr>
<td>Burfitt, A.</td>
<td>104</td>
</tr>
<tr>
<td>Buro Happold</td>
<td>90</td>
</tr>
<tr>
<td>business models</td>
<td>3–4, 13, 90, 118, 200</td>
</tr>
<tr>
<td>Camagni, R.</td>
<td>2, 18, 86, 170, 227, 247–55</td>
</tr>
<tr>
<td>Campagna Amica</td>
<td>153, 155–8, 162, 164</td>
</tr>
<tr>
<td>capitalism</td>
<td>43</td>
</tr>
<tr>
<td>carbon dioxide emissions</td>
<td>51 see also greenhouse gas emissions</td>
</tr>
<tr>
<td>carbon footprint</td>
<td>157</td>
</tr>
<tr>
<td>Carvalho, L.</td>
<td>12, 13, 86, 100</td>
</tr>
<tr>
<td>Centre for Sustainable Water Technology</td>
<td>see Wetsus</td>
</tr>
<tr>
<td>Centre of Expertise Water Technology</td>
<td>108</td>
</tr>
</tbody>
</table>
### Centres of Cooperative Research

<table>
<thead>
<tr>
<th>CICs</th>
<th>certification 22, 175, 179, 205</th>
<th>CESERs 213–14, 221–2</th>
<th>Chenshan Botanic Garden 74–8</th>
<th>Chimon Corporation 229, 231, 241</th>
<th>CICs 196, 198, 200–201, 207</th>
<th>Cisco 86, 90, 96, 98</th>
<th>City of Paris Engineering School see Rébeval Project</th>
<th>climate change 50–51, 63–4, 82, 86, 171–2, 174–6, 204</th>
</tr>
</thead>
</table>


| communication | 28, 33, 36, 45, 77, 86 | competitiveness | 1, 8, 10, 42, 117, 162, 194–7, 210, 222, 243, 247, 250, 252, 256 | construction | 3, 51, 59, 68–70, 72–4, 78–81, 97 see also sustainable renovation | conventionalist approach | 35–8, 45–6 | corporate social responsibility (CSR) | 43–5 |


| environment, social and governance criteria | 39 | environmental standards | 28 | ethical finance see sustainable finance | European Regional Development Fund | 108 | European Research Group on Innovative Milieus see GREMI | European Union | 51, 105, 113, 154–5, 190, 251 | Eurosif | 42 | EUSTAT | 190 | EVE | 192, 194–6, 200, 204–5 | experimentation | 55, 58–9, 91, 93, 96 |

| Faber, N.R. | 65 | Fair Trade | 42 | Federal Council | 38 |
Index

Federation of Nautical Industries 223
Ferme du Buisson 53–5, 60
Ferreira, C. 87
Feser, E. 104
flagship-oriented sustainable innovation 7, 11–13, 16, 20, 50, 59, 81, 119, 180, 189, 197, 204, 206
Flexcell 31, 33–4
Florida, R. 132
Fonte, M. 153
Fordism 1
foreign direct investment (FDI) 92
fossil fuels 204
Fountaine-Pajot 216–17
free-riding 254
funding 20, 58, 154
gatekeepers 5–6, 16, 60, 79, 82, 106, 115, 130, 144–6, 153, 166–7
Geels, F.W. 156
gentrification 127, 129, 133–8, 141
Gertler, M.S. 104
global mega trends 64
global production networks (GPNs) 106–8, 114, 116, 119
globalization 106, 144–5, 229–30
graffiti see street art
Great Basque Competitive Transformation 189–210
green construction see construction
green funds see sustainable finance
greenfields 88–9
greenhouse gas emissions 51, 204 see also carbon dioxide emissions
GREMI 2, 18, 100, 114, 119, 128, 142, 165, 170, 218, 247–9, 251–2, 256
Grove Boats 31
Guesnier, B. 10
Haute Qualité Environnementale (HQE) 53
healthcare 11, 240–41
heritage management 191
high net worth individuals (HNWIs) 42
Hitachi 90
hypermobility 2, 87, 100
Iberdrola 198
IBIL 200, 202, 204
IBM 86, 90
Ihobe 195–6
Iland Green Technologies 31, 34
industrial zones 9
industrialization 33–4
INE 190
information and communication technology (ICT) 86, 90–91, 94, 197, 202 see also PlanIT
innovative milieus 15–21, 27–9, 54, 106, 130, 144, 146–9, 164, 176, 178–9, 183, 194, 215, 247, 250–51, 254
Institute Jules Verne 218, 222
Institute of Microtechnology of Neuchâtel (IMT) 30
institution-oriented sustainable innovation 7–11
intellectual property rights (IPRs) 89, 94
International Commission for the Protection of the Alps (CIPRA) 172
International Monetary Fund (IMF) 94
internationalization 70, 73
Internet 1
investors 38
ISO 14000 22
ISO 14001 175, 179
ISO 18001 175
John the Baptist Church 108, 112, 115, 118
Julien, P.-A. 41
Kebir, L. 6, 11, 22, 29, 46, 61, 100, 146, 165, 168, 170–71
key enabling technologies (KETs) 198
knowledge dynamics at the micro level (MKD) 63–4, 73–80
knowledge intensive business services (KIBS) 53, 56–8, 60, 63–70, 80–82
green construction in Germany and China 72–3
methodology 71
micro-dynamics of 73–80
technology-based KIBS 70–71, 73–5, 77–82
knowledge transfer 67–9, 78, 81, 135
Kyocera Corporation 241
Kyoto Protocol 51
Label Bleu 220–21
Lagendijk, A. 12, 13, 104
landlords 50, 55, 59–60
land-use planning 116, 118
LEADER initiative 165
Leadership in Energy and
Environmental Design (LEED) 53
Leeuwarden water campus see water
campus
legislation 8, 10, 72
legitimization 3, 6, 8, 17–18, 20, 33,
  35–6, 38, 43, 48, 79–80, 143–5,
  147–9
Les Gets 171, 176, 178, 181
Lewis, S. 87, 92–3
licensing 89–90
life cycle analysis (LCA) 220
Linder, F. 6, 58
Lisbon Treaty 3
Livi, C. 6, 8, 12, 13, 20, 48
Living PlanIT see PlanIT
lobbying 10, 118
localization 19, 70, 74, 79, 81, 91–8,
  129
Lombard Odier Turrettini & Cie 42
Luimstra, P. 111, 113
Ma, Z. 51
Macneill, S. 104
Magic Turtle 31
Maillat, D. 2, 18, 165, 170, 247–8, 250
Mairie de Paris 58
manufacturing sector 21, 190, 225,
  231–4, 236, 240, 242 see also Suwa
  industrial region
Marchesnay, M. 41
marketing 36, 106, 112, 114, 116–17
massification 127, 133–5, 141
Matteacioli, A. 150, 255
McLaren 89–90, 95
media 2, 4–5, 7, 12–13, 15–18, 29,
  31–4, 46, 47, 60
medical sector 10, 240
Megliomilano 255
Mercedes 8
Mercedes-Benz 200, 202
mergers 241
microfinance 39
Microsoft 90, 93, 95
Miller, C.R. 107
Milligan Retail 90
Mirabaud 42
mobile systems 1
modernization 190–91, 193, 208
Mollard, A. 157
Monge Techno Foundation 234
National Association of Mayors of
Mountain Resorts 179
nautical industry 213–15, 221–3
in Atlantic regions 215–17 see also
Atlantic Nautical Network
R&D and innovation 217–19
regional authorities 219–21
Neighbourhood Watch 255
New Economic Geography approach
  249
New Industrial Okaya Members
(NION) 232, 241–2
Ng, I.C.L. 153
noise management 54, 128, 136, 140
non-governmental organizations
(NGOs) 5–6, 8, 10–11, 15–16, 29,
  47, 142, 172 see also individual
  organizations
normative exclusion 39
normative inclusion 39–40
Northern Regional Development
Agency (NOM) 115–17
nuclear power 36
Okamoto, Y. 10
Olympus 229, 241
on-the-job learning 57
Ostrom, E. 254
overcapacity 117
Paris Climate Plan 51
Passet, R. 253
Paton, J. 8, 10, 20, 190, 191, 196, 210
Peaks in the Delta 108
pension funds 42, 47
Perrin, J.-C. 247, 250–51
Peyrache-Gadeau, V. 3, 14, 16, 68, 150,
  166, 170, 174, 182
Philips 90
<table>
<thead>
<tr>
<th>Index</th>
<th>265</th>
</tr>
</thead>
<tbody>
<tr>
<td>photovoltaic power 5, 20, 27–38, 45–8, 216</td>
<td>Regional Economic, Social and Environmental Councils see CESERs</td>
</tr>
</tbody>
</table>
shareholder activism 39
short food supply chain 167–8
Sidewalk Watch 255
Siemens 86
small and medium-sized organizations (SMEs) 8, 28–9, 58, 70, 87–8, 95–6, 108, 110, 115, 214, 218, 222, 226, 228–30, 232–4, 236–7, 239, 241, 243
smart city concept 86, 89, 91, 93 see also PlanIT
snowballing 97
social capital 41
socially responsible investment see sustainable finance
Sociedad para la Promoción y Reconversión Industrial (SPRI) 192, 194
software 12–13, 71, 88–90, 94–5, 110, 112, 220, 223 see also PlanIT
solar boats 36
Solar Impulse 4
solar technologies 13, 31, 36 see also photovoltaic power
Sonnino, R. 159
Spanish National Institute of Statistics see INE
sponsorship 4–5, 13, 16, 20, 37–8, 46, 237
start-ups 31, 33–4, 40–41, 117, 230
Storper, M. 105
Strambach, S. 6, 58, 65, 66, 70, 71
strategic intelligence 103, 106–7, 115, 119
street art 128–9, 136, 139, 145
subsidies 4
sustainability convention 35–8, 45–6
sustainable construction see construction
sustainable finance 3, 8, 10, 27, 29, 38–48
Sustainable Finance Geneva 10, 41–2
sustainable innovation definition of 2–3
dimensions of 6–15
flagship-oriented see flagship-oriented sustainable innovation
institution-oriented 7–11
measuring 2–3
product-oriented 6–9, 50
territory-oriented 7, 14–15
theoretical approach to 3–6
sustainable renovation 11, 50, 61
context of 51–5
innovation and organization of the production system 56–60
and milieu effects 60
Suwa industrial region 225–44
SUWAMO development agency 9, 237, 239, 242–3
Swiss Bankers Association (SBA) 38
Swiss Technology Institute 30
Swissolar 10
synthetic, analytic and symbolic knowledge (SAS typology) 69
Takachiho see Olympus taxation 38
technology transfer 17, 207, 213, 217–18
technology-based KIBS (t-KIBS) 70–71, 73–5, 77–82
territorial innovation models (TIMs) 1, 27, 46–7
territorialization 129
territory-oriented sustainable innovation 7, 14–15
Thermal Regeneration (2012) 52
Tour Bois-le-Prêtre 54–6, 61
sustainability challenges for Alpine resorts 171–6
sustainable innovations in resorts 176–82
touristification 129, 133–5, 141
Trabalzi, F. 14, 15, 165
trade unions 153, 155–6, 158, 162, 224
traffic control 127, 135–6, 139–40, 178
transparency 43
transport 17, 31, 51, 66, 139–40, 176 see also electric cars
solar boats 36
triple bottom line 63, 65, 68, 72
triple helix projects 209
trust 18, 154, 247
unemployment 190, 192
Urban Art Gallery (GAU) 139
Index

Urban Operating System 12
urbanism 17
urbanization 80, 86, 142, 157, 170

Val d’Isère 171, 176–8, 180–81
Vale, M. 12, 13, 100
value chains 47, 66, 69–70, 78, 96, 106
value creation 148–9
Vazquez Barquero, A. 247
volunteering 17, 141–2
vulnerability 171, 174–5, 213

waste collection 127, 137, 140
waste management 3, 54, 66
Water Alliance 108, 115–16
Water Application Centre 108, 117
water campus 12–13, 108–20
water management 66–7, 72, 86

Water-Energy and Life Sciences
Leeuwarden (WELL) 108, 115, 118
wealth management 40, 42 see also sustainable innovation
Wenting, R. 40
Wetsus 103, 108–10, 112, 114–16 see also water campus
Wolfe, D.A. 104
World Wide Fund for Nature (WWF) 172

yachting 214 see also nautical industry
Yashica Corporation 229, 241

Zero-Km Farmers’ Markets 15, 153–8, 162–8
Zodiac International 216