## Index

air quality 18, 30, 34-5	designing green infrastructure for 96–9
air pollution 38, 76, 232	connectivity 93
-related fatalities 30	habitat creation 97
sources of 31	heterogeneity 92–3
biological pollutants 32–3	management 95
biologically derived volatile organic	native species 93–4
compounds (BVOCs) 32–3, 37–8,	patch size 93–4
43–4, 76–7	use of brownfield/contaminated sites 97
spores 32	indicators
concentration limits 30–31	global 87
role of vegetation in 30–33, 41, 43–4	loss of 118, 169, 451
street trees 33–4, 36	role of urbanisation in 87–9
air temperature 41	plant 89, 93
regulation of 44	urban environment 88–9
use of vegetation in 72	woodland 437
ancient Greece 319	Biosffer Dyfi Biosphere 359–60
Aristotle 319	Birmingham Open Spaces Forum 367
Arnell, Nick 52	Blair, Tony 381
arsenic (As) 30	Body Mass Index (BMI) 16
Arup	Boeri, Stefano
Cities Alive 364–5	Vertical Forest project 453
Ashworth, G. 303, 306	Boston Park System (Emerald Necklace) 13
Atkinson, G. 400	blue infrastructure 18, 51, 54, 57–8
Atlantic Gateway 130, 136–7	blue-green infrastructure 2, 17–18, 59
Atlas Capital Group 159	detention basins 61
Australia 16, 54, 231, 234, 256	green roofs 60
Australian Disability Discrimination (1992)	potential of 59
246	rain gardens and bioswales 61
Melbourne 57, 277	retention ponds 61
Parks Victoria 342	small business 60
Urban Forest Strategy 454	swales 61
Sustainable Landscapes Project 237	tree pits 61
Sydney 234	Bradshaw, A.D. 395–6
Central Park building 234	Restoration of Land, The 400
Austria	Brazil 256
Vienna 31	Rio de Janeiro
	Copacabana 321
Baca LiFE project 58	British Standards Institution 404
Banerjee, T. 247	Buffalo Park System 14
Bankside Open Spaces Trust 341	
Barratt Homes 152, 378	cadmium (Cd) 30
Belgium 360	Cambridge Futures Group 147
Bruges 110	Cambridgeshire and Peterborough Structure
benzene ( $C_6H_6$ ) 30	Plan (2003) 147
Berque, Augustin 317–18	Cambridgeshire Horizons 148
biodiversity 3, 96–8, 136, 185, 187, 234, 435,	Quality of Life programme 149
447	Canada 234, 256, 277, 309
bird species 90–91	British Columbia 308, 313

River, Frasier 309	Community Forest Partnerships 112–13
Toronto 234	Mersey Forest, The 3–4, 113, 124–5, 127–8,
Vancouver 6, 307–11, 313–14, 356	130, 132, 137–9, 368, 399
City of (COV) 308	Forum 127
Downtown District Official Development	Green Infrastructure Unit (GIU) 127
Plan (1975) 308, 311	Liverpool City-Region and Warrington
Downtown Vancouver Skyline Study 308,	Green Infrastructure Framework
311, 313	137
General Policy for Higher Buildings (1997)	Liverpool Green Infrastructure Strategy
308	137
Greenest City 2020 Action Plan (GCAP)	Think Tank (GrITT) 127
367	North-East Community Forest 113
Stanley Park 307	Red Rose Forest 113, 125, 127
Vancouver City Council 313–14	community involvement 354, 360, 370–71
Vancouverism 309–11	benefits of 354–5
View Protection Guidelines (1989) 311	community interest companies (CICs)
Canyon-Johnson Urban Funds 159	356–7
capital 58, 345	definition of 355–6
investment 137, 345	experiential knowledge 364–5
mobile 304	funding conditions 362–3
natural 169, 174	Mersey Forest Plan, The 356
social 284	patterns of 358–9
carbon dioxide (CO <sub>2</sub> ) 2, 35, 38	planning for urban areas
atmospheric 44	garden cities 367
emissions 366	liveable cities 366–7
anthropogenic 38, 40	transformation via major projects
energy-related 38	368–9
reduction of 244	urban extensions and new towns 367–8
removal 43	San Francisco Forest Map 356
urban surfaces 39–40	Seven Lochs Wetland Park Masterplan 356
carbon monoxide (CO) 30, 32	Winsford Neighbourhood Plan 359, 362
concentration of 36–7	computational fluid dynamics (CFD) model
carbon sequestration 76, 399	33, 36
Central Scotland Green Network Trust	Conservation Fund 110
(CSGNT) 365–6	Conservative Party (UK)
Centre for Economics and Business 248	Coalition Government (2010–15) 112
Chadwick, M.J. 395–6	green infrastructure policy-making under
Restoration of Land, The 400	113–16
China, People's Republic of 106, 112	Construction Industry Research and
Ciorra, Pippo 168	Information Association (CIRIA) 55
City Parks Alliance 348	Cooperative Research Centre for Water
climate change 1, 17, 30, 40, 51–2, 54, 63, 84,	Sensitive Cities (CRC-WSC) 54–7
88, 106, 137, 168, 346, 352, 355, 364, 371,	COST Action 110
408, 450–51, 454, 456	cost–benefit analysis (CBA) 3, 70, 72–9, 82–3,
adaptation 2, 93–4, 118, 128–9, 136, 236,	85
371	commissioning issues 80–82
mitigation 2, 31, 75, 118, 169, 238, 399,	displacement 79–80
410	ecosystem services 70, 72
use of urban vegetation 38–9	valuation 72
threat to biodiversity 98	formal 73
climate regulation 54, 185, 426, 451	PROJECT OFF 70
Commission for Architecture and the Built	PROJECT ON 70
Environment (CABE) 237, 249, 257	social return on investment (SROI) 74
Skills to Grow. Seven Priorities for Green	timeframe 79
Space Skills 345	cost–benefit ratios 78
Space Simil 5 15	toot belieff fullog / c

cost-effectiveness analysis 74–5	green intrastructure policies of 111–12
Council for the Protection of Rural England	Life+ 363–4
147–8	Structural and Investment Fund Strategies
Council of Europe (CoE)	130
European Landscape Convention (ELC) 4,	territory of
167–71, 173–4, 178, 180–82, 361	artificial areas 168
Landscape Quality Objectives (LQOs)	Water Framework Directive 56–7, 111
167, 170–76, 178, 180–82	
Strategic Environmental Assessment	Facebook 449
(SEA) 171, 173, 175–6	Felt, James 233
Countryside Agency 113, 115, 125, 127	flooding 2, 13, 17, 50–52, 233–4, 236, 402, 428,
Czalczynska-Podolska, M. 283	450
	downstream 72
Denmark 274	mitigation 230, 232, 236, 399
disability 246	risk 52, 84–5, 195
ageing populations 251–2	assessment 57
ambulant 250–51	stormwater 61
equality legislation 246–8	urban 402
green infrastructure access issues 243–7,	Forest Research 363–4
253–5, 257–8	Forestry Commission 4, 112, 124
delay in progress 247–9	UK Woodland Carbon Code 455
issue of wheelchair symbol 250-51	France 40, 256
mental health issues 251	Nice
sight loss 251–2	Promenade des Anglais 321
universal design principles 256–7	Paris 31, 90, 94–5, 339
criticisms of 256	Quai Branly Museum 234
Doick, K. 400, 410	•
	Garden City movement 2, 14, 32
economic impact analysis 74–5, 80	Geddes, Patrick 14
economic impact assessment (EIA) 67, 69–70,	Gender Mainstreaming Toolkit 203–4
85	geographic information system (GIS) 148,
limitations of 82	354
economic theory 67–9	analysis 156
role of market in 69	Germany 32, 256, 360
market failure 69–70	BIDs/NIDs in 343–4
Engineering and Physical Sciences Research	Dortmund 110
Council (EPSRC) 54	Freiburg 234, 366
Adaptable Urban Drainage – Addressing	Land Use 2020 366–7
Change in Intensity, Occurrence	Local Agenda 21 367
and Uncertainty of Stormwater	Hanover 89, 93
(AUDACIOUS) 53	Leipzig 449
environmental settings 432, 434–5	Global Financial Crisis (2007–9) 248, 449,
European Commission 174, 458	457
Air Quality Standards 30	Goldsmith, S. 243, 256
green infrastructure policies of 111	Great Outdoors Colorado Foundation
European Green Infrastructure Strategy	(GOCO) 287, 292
130–31	green belt 37, 146–7, 186, 193, 452
European Union (EU) 30, 109–11, 169, 171,	Green Flag Award 340, 345, 350
248, 363, 457	green infrastructure 1–2, 5–7, 14–15, 19–20,
Blue Green Dream project 54	31–2, 41, 50–51, 53–4, 58, 62–3, 69, 73,
definition of green infrastructure 227	78, 84–5, 91, 109, 118, 124, 127–9, 131–3,
Floods Directive 56–7	136–9, 149–50, 157, 174, 184, 188, 200,
Green and Blue Space Adaptation for Urban	203, 220, 227–8, 234–5, 253, 297, 321,
Areas and Eco Towns (GRaBS project)	375, 378, 401, 440, 445, 447–9, 453, 456–9
54, 128–30, 137	461

benefits in land/urban regeneration 399–400	typology of 228–30
definitions of 11–12, 125–6, 227, 396	urban 45, 91, 184–6, 199, 454–5
design considerations 181	operative (OUGI) 4, 187, 190, 192–3, 196,
biodiversity 92–9	198–200
growth strategies 145–56	strategic (SUGI) 4, 187, 190, 192-3,
multifunctionality 237–8	195–6, 198–200
development of 67, 105-6, 145, 376	users of 205–6
disabled access in 242–3, 253–4	Green Infrastructure Forum for
delays in progress for 248–9	Cambridgeshire
disability issues 243–7, 254–5	establishment of (2004) 148
discourse 378	green school grounds 281
practice-based reforms 377	benefit of nature access to children 281–2
synergy of function 376–7	design considerations 289–90, 292–7
ecological benefits of 13	adults 284, 287
economic analysis of 78–9	children 283, 287
evaluation of 414–15, 420–21, 423–4	joint use 285, 289, 292–3
ecosystem services 424–35	green space governance models 6, 338–9,
logic modelling 416, 418–19, 424, 426,	344–5, 349, 351–2
439	area-based 343
monitoring/evaluation 420–22, 439–40	asset management approach 349–50
future of 445–9	Business Improvement Districts (BIDs)
climate readiness 450–51	343–4, 348
digital 458–9	Community-led Spaces 341
in austerity 456–7	differing scales 342
integration 460–61	funding 345–6
protection 452–3	future trends in 348–9
wildlife habitats 451–2	planning/development 347–8
governance models 338–9	private sector 346–7
health benefits of 12, 15–16, 25, 41, 453–4	site-based income generation 348
physical activity 16	voluntary/non-profit sector involvement
stress reduction 17, 245	347
management of 98, 238	management planning 350
market infrastructure 388–9	managing use 350–51
multifunctional 230–31, 238	Neighbourhood Improvement Districts
designing 237–8	(NIDs) 343–4
ecological 232	partnerships 341–2
economic 232–3	settlement-wide 342–3
functional synergies 234, 236, 238	site-based 343
social/cultural 231–2	skills 344–5
origins of 14	state-wide 342–3
planning principles 190	Green Spaces South Cheshire 357
context 189	greenhouse gases 36, 40, 356, 366
continuity 189	anthropogenic emissions of 38–9
quality 188–9	Greenlink 2, 20–21, 24, 365
quantity 188	establishment of (2005) 21
policies 105–6, 108–10, 118–20, 128–30,	Greenpeace 24
150–51	Greenspace 262
international 110–12, 119	grey infrastructure 53, 107, 234, 377
national 112–17, 119	investment in 105
stakeholders 109, 115	Grosvenor
presence in historic urban environments 301,	partnership in Trumpington Meadows Land
304–5	Company 152
role of water in 17	Company 152
social well-being benefits of 18	habitat provision 435
types of 204–5	Harvard University 146
13 PCS OF 207 3	Trai vara Chrycistry 170

Heritage Conservancy 110	land/urban regeneration 395-6, 398, 406-7,
Hinduism	410–11
Diwali 217	benefits of green infrastructure in
Mela 217	economic 399–400
historic urban environments 301, 304	environmental 399
concept of 302–3	social 399
conservation of 305–7	brownfield land 403-4, 415
heritage governance 305	concept of 395
planning 307	confusion regarding green infrastructure
green infrastructure element of 301, 304–5	rules 407–8
role of new development in 306–7	cost of maintaining greenspace 408
urban morphology 304	land-ownership issues 407
Holmgren, David 237	process of 404–5
Hopman, M. 455	Soil Resource Survey 404
Hostetler, M. 106, 376	vegetation types used in 405–6
Howard, Ebenezer 14, 32, 367	scale of post-brownfield green infrastructure
Humboldt, Alexander von 317	408–10
Hutchings, T.R. 396	technical challenges 400–401
hydrofluorocarbons (HFCs) 38	habitats 402–3
HYM Investment Group 159	soil types 401–2
	Land Trust 347
India 106, 112, 248, 256	landscape 166–9, 171, 174–5, 180, 182, 190,
Institution of Civil Engineers 458	192, 317–21
International Panel on Climate Change (IPCC)	concept/definitions of 176, 317–18
39 Leterne IVP 110	identities 318
Interreg IVB 110	management 169
North Sea Region 360	zoning 176
isoprene ( $C_3H_8$ ) 37	metropolitan 187–8, 199–200
Israel 256	metropolitan scale 186
Italy 6, 256	municipal scale 186
Chioggia	Nature–Artifice dynamic 322–3
landscape development in 321, 325–8,	planning 169, 180–81, 319
329–32	post-industrial 395
Florence 2, 39	protection 169
CO <sub>2</sub> emissions from 40	rejuvenation 365–6
urban vegetation in 39–40	transformation 320–21, 324, 327–32
Milan	units 180
Bosco Verticale 234	urban 193, 200, 236, 459–60
Porta Nuova 453	Landscape Institute 110, 116, 148, 458
i-Tree Eco 75, 77–8, 459	'Profitable Places: Why Housebuilders Invest in Landscape' 153
Ka-Shing, Li 309	Larkham, P. 303, 306
Kitchen, L. 403–4	LDA Design 149
Kyoto Protocol	lead (Pb) 30
regulation of anthropogenic greenhouse gas	Liberal Democrats (UK)
emissions 38	Coalition Government (2010–15) 112
labour	green infrastructure policy-making under 113–16
productivity 134	Liernur, Jorge 168
Labour Party (UK)	Living Streets 360
New Labour (1997–2010)	logic models 417–19, 424, 432, 434, 437,
brownfield first policy 381	439
green infrastructure policy-making under	activities approach 418–19
112–13	
	outcome approach 419
'Sustainable Communities' agenda 377	process of 419–20, 426, 428, 430, 432

theory approach 418	nitrogen dioxide (NO <sub>2</sub> ) 30, 32–3, 35
Weaver's Triangle 418	nitrogen oxide (N <sub>2</sub> O) 37–8
London Legacy Development Corporation	nitrogen trifluoride (NF <sub>3</sub> ) 38
(LLDC)	noise mitigation 430, 432
Legacy Masterwork Framework 370	non-governmental organizations (NGOs) 173,
Lorenzetti, Ambrogio	175
Allegory of Good and Bad Government 319	NorthPoint Park 145
Lough Neagh project 361–2	development parameters 160
Loukaitou-Sideris, A. 247	North Point PUD 160, 162
Louv, R.	land used in development of 159–60
concept of 'Nature Deficit Disorder' 252	opening of (2007) 158
Lynch, Kevin	Norway 256
	1101 way 230
Image of the City, The (1990) 166	Oehme van Sweden and Associates
Mass Ban	
Mace, Ron	parks designed by 158
role in development universal design concept	Olmsted, Frederick Law
256	observation on benefits of park networks
Malaysia 90	12–14
McHarg, Ian 14	parks designed by 13–14, 32
methane (CH <sub>4</sub> ) 38	OPAL 458
Michael Van Valkenburgh Associates 160	Organisation for Economic Co-operation and
Millennium Ecosystem Assessment (MEA)	Development (OECD) 111
230, 396, 408	Orwell, George
mixed methods approach 262	Animal Farm (1945) 242
Moffat, A.J. 396	Overseas Development Agency 111
Mollison, Bill 237	ozone $(O_3)$ 30, 32, 35, 40–41, 78
monoterpenes ( $C_{10}H_{16}$ ) 37	photochemical 37
Muir, John 12	
multifunctionality	PanAm Railways 159
concept of 230–31	Pareto, Vilfredo 69
	particulate matter (PM) 30–33, 35–6, 40–41, 44
Nantwich Riverside Project 357	traffic-emitted 33
National Housing Federation	perfluorocarbons (PFCs) 38
Neighbourhoods Green 344	Persimmon 378
National Statistic Socio Economic Class	polycyclic aromatic hydrocarbons (PAH) 30
(NS-NEC) system 269	Portugal 6, 167–8, 170, 175
National Trust 217, 245, 252	Arnóia Dam 175
Natural Economy Northwest (NENW) 128,	Aveiro 36–7
375, 377	Cabo Mondego 322
Economic Value of Green Infrastructure, The	Figueira da Foz
134–5	landscape development in 321–5, 331–2
Natural England 4, 77, 110, 112, 115–16, 124,	Land Use Plan 171
128, 376	Lisbon 36, 175
literature review of 80	Obidos 4, 167, 175–6
Natural Resource Wales 359–60	landscape of 175–6
neoclassical economics 67–8, 82	LQO Plan 176, 180
neoliberalism 375	Óbidos Lagoon 175
Netherlands 41, 256, 282, 360	Ovar-Marinha Grande Coastal Zone
Amsterdam	Management Plan (POOC) 322
GWL Terrein 95–6	Porto 4, 193–5, 198–9
Room for the River programme 57	OUGI of 196, 198–9
Rotterdam 234, 446	Public Spaces and Facilities Map 198
New Yorkers for Parks 346	Routes Map 198
New Zealand 54	SUGI of 195–6, 199
nickel (Ni) 30	River, Arnóia 175

River, Douro 194, 196, 198	speculative housing provision 378–80
River, Mondego 322	innovation in 385–8
River, Real 175	relationship with environmental agenda
River, Tinto 198	380–82
River, Torto 198	strategies 380–81
River, Vale Benfeito 175	Robert Bray Associates 62
Santa Clara Plateau 89–90	Roger, Alain 320
Serra da Boa Viagem 322 Spatial Planning Framework 175	Royal Commission on Environmental Pollution (RCEP) (2007) 376
public green spaces/parks 12–13, 17, 31, 158,	findings of 363
199, 204, 207, 216, 220, 310, 337–8, 340,	Royal Institute of British Architects (RIBA)
342, 344, 346, 348–9, 351–2, 357	458
accessibility 209	Royal Institution of Chartered Surveyors
amenities/facilities 212–15	(RICS) 204, 458
as commodity 216	Royal National Institute of Blind People
concept of 337–8	(RNIB) 251
external access 208	Royal Society for the Protection of Birds
housing 208–9	(RSPB) 355–6
transport 208	Royal Town Planning Institute (RTPI) 116,
management 341–2	153, 220–21, 458
ownership issues 216–19	Code of Professional Conduct (2012)
paths 209–12	220
security 211–12	220
privatisation of 339–40	Scottish Index of Multiple Deprivation 21
urban parks 217–18	Second World War (1939–45) 302, 365
uses by social groups/population	Siemens AG 111
demographics 206–8, 219	Sieverts, Thomas 168
public open spaces (POS) 260–63, 267–8	Singapore 89
relationship with surroundings 261–2	biodiversity in 90
use of 268–70, 278	Public Utilities Board (PUB)
impact of access to private outdoor spaces	Active, Beautiful and Clean Waters
on 270, 274, 276	(ABC Waters) 54
impact of legibility/attractiveness/fit with	SITA Trust 128
local character on 274	Smith, Adam 68
impact of provision of POS on 270, 275,	soil formation 437
277	South Africa
impact of street pattern/density/	Cape Flats Sand Fynbos 89, 94
integration/mixed use development	South Yorkshire Forest Partnership 363
on 274, 276–7	Spain 168
reduced 275	Barcelona 31
socio-demographic factors influencing	spatial voids 167
274–5	stormwater regulation
0 17 16 40	leaf area index (LAI) 428
Quality Management Systems 460	sulphur dioxide (SO <sub>2</sub> ) 30, 32–3, 35
quality of life 2, 12, 15, 19, 148–9, 162, 170,	sulphur hexafluoride (SF6) 38
188–9, 200, 238, 251, 281, 362, 368,	sustainable development 7
387–8	Sweden 283, 360
promotion of 185	Malmö
B D 220	Augustenborg 236
Reeves, Dory 220	SWITCH-EU 55
Republic of Ireland 256	Switzerland 256
Research Institute for Regional and Urban	T 1 W' 270
Development (ILS) 110	Taylor Wimpey 378
residential development 375–6, 383–4,	Terence O'Rourke 152
388–92	Thames Gateway 130, 375, 377

Town and Country Planning Association Commission for Architecture and the Built (TCPA) 110, 112, 116, 237-8, 376, 458 Environment 60 Green Infrastructure Partnership 458 Community Infrastructure Levy (CIL) 216, 362, 367 Treezilla 458 Trumpington Meadows 145, 151, 157 Cornwall 118 Country Park Strategic Plan 153 Department for Communities and Local creation of 152 Government (DCLG) 354, 361 Environmental Management Plan 152-3 Department for Environment, Food and land used by 151-2 Rural Affairs (DEFRA) 57, 70, 109, Public Art Strategy 152 125-6, 354, 405 Youth and Play Strategy 152 Natural Environment White Paper (2011) Trumpington Meadows Land Company 362, 407 land purchased by 152 Devon 118 Trust for Public Land 233 Disability Discrimination Act (DDA) (1995) Tunbridge, J.E. 303 246, 248 East Midlands 118 turquoise infrastructure 17 Twitter 449 economy of cost of human health 16 UK Landscape Award 361 Environment Agency 4, 58, 124, 128, 404 United Arab Emirates (UAE) Equality Act (2010) 246-7 Gender Equality Duty (GED) 220 Dubai 320 Public Sector Equality Duty (PSED) 220 United Kingdom (UK) 3, 5-7, 14, 40, 50, 53-4, 58, 77, 106-7, 119, 124, 132, 145, Section 149 247 159, 206, 213, 231, 242, 245, 248, 251-2, Flood and Water Management Act (2010) 57, 59 262, 274–5, 277, 302, 338, 355, 357, 360, 378, 445, 454 flooding in 52, 57 air pollution in 30 water stress 52 Bath 243 Gloucester 243 Bedfordshire 118 government of 52, 74, 79, 112, 116, 249, 361, biodiversity loss in 87, 90 367, 414 Birmingham Pitt Review 52 Green Vision 367 Government Office for the North West (GONW) 125, 129 Bradford Lister Park 448 green infrastructure policy-making in Bristol 243, 260, 275, 447 115–16, 118, 137–9, 383, 385 Bedminster 216, 243-4 local enterprise partnerships (LEPs) Building Regulations 246–7, 257 Part M 246 local nature partnerships (LNPs) 130 National Planning Policy Framework **Built Environment Professional Education** (BEPE) project 249 (NPPF) 113–14, 130–31, 383 Cambridgeshire 116, 118, 145, 149, 161–2 Natural Environment White Paper 131 Cam, River 146, 151 Planning Policy Guidance (PPG) notes Cambridge 4, 145–7, 155–6, 162, 452 112 - 13Cambridge City Council 146, 148-53 Planning Policy Statements (PPSs) 112 Sustainable Communities Plan 147 Green Infrastructure Strategy 157 South Cambridgeshire District Council Harlow 32 146, 148-50, 152 Heritage Lottery Fund 338, 348, 357 Southern Fringe 150-51 Public Parks Programme 345 Carlisle 118 housebuilding industry of 390-92 Cheltenham 243 innovation in 385-8 Chronically Sick and Disabled Persons Act speculative housing provision 378–83 (1970) 245Humber 116 Climate Change Risk Assessment (CCRA) Liverpool 118, 125, 130, 133, 137, 139 (2012)456Birkenhead Park 12 Code for Sustainable Homes 157 Chavasse Park 340

Everton Park 358 Scotland 2, 20, 282, 356, 365 Liverpool ONE 340 Motherwell 21, 365 Localism Act (2011) 362 North Lanarkshire Council 365 Community Right to Bid 362 Scottish Environment Protection Agency London 116, 145, 147, 151, 217, 351, 359, (SEPA) 58 409, 445, 448 Water Environment (Controlled Activities) (Scotland) Regulations All London Green Grid 237 Battersea Park 337 (2011)57Sheffield 260 Camley Street Nature Reserve 217–18 Greater London Authority 217 Abbeyfield Park 448 Mayesbrook Park 72-3 Sites of Special Scientific Interest (SSSIs) Queen Elizabeth Olympic Park 208, 210, 402 - 3370 South Midlands 118 Southwark 341 St Helens 118 Victoria Business District 234, 344 Stansted 147 Victoria Park 12 Stroud 3, 61-2 Luton 118 Sustainable Communities Plan 125 Manchester 118, 125, 130, 137 Swindon 118 Merseyside 124 Taunton 243 Milton Keynes 118 Telford 118 Milton Keynes Park Trust 347 Thames Basin Special Protection Area 97 Monitor of Engagement with the Natural Todmorden Environment (MENE) 447-8 'Incredible Edible Todmorden' campaign National Ecosystems Assessment (NEA) 236 218, 415, 437, 451 Torbay 3, 75, 79 categorisation system of 415-16 Town and Country Planning Act (1947) 215 Follow-On Asset Check 84 Treasury 79 National Health Service (NHS) urban trees in 37–9 Lanarkshire Greenspace Health and Water Services Regulation Authority Wellbeing Partnership 24 (Ofwat) 59 Natural Capital Committee 83–4 Weston-super-Mare 243 Natural Resource Wales 58 Wirral Waters 136, 355, 366, 368 North West Climate Change Action Plan 128 Yorkshire 116 North West Regional Assembly 129 United Nations (UN) 203, 452 Northern Ireland 361-2 Convention on the Rights of Persons with Northern Ireland Environment and Heritage Disabilities (2006) 247 Service (NIEHS) 58 Educational, Scientific and Cultural Northwest Regional Development Agency Organization (UNESCO) 359 (NWDA) 127, 129 'Man and the Biosphere' 359 Regional Economic Strategy (RES) 128-9 World Heritage Sites 196 Office for Disability Issues (ODI) 251 Environment Programme (UNEP) 30 Office of National Statistics 250–52 Framework Convention on Climate Change Olympic Games (2012) (UNFCCC) Legacy programme 208 Doha Amendment (2012) 38 open mosaic habitats in 403 United States of America (USA) 3, 11–12, Paralympic Games (2012) 249-50, 370 31, 57, 61, 75, 77–8, 106–7, 109–10, 112, Plymouth 118 114-15, 119, 145, 231, 234, 245, 248, population of 206–7 256–7, 277, 282, 285, 309, 342, 377, 395 Previously Developed Land Americans with Disabilities Act (1990) 246 Open Mosaic Habitats 97 Arlington, MA 146 Public Health Act (1936) 213 Berkeley, CA 285 Public Park Assessment 346 Boston, MA 13, 32, 145, 158-9 Regional Development Agencies (RDAs) 115 Boston Schoolyard Initiative 285 Regional Spatial Strategy (RSS) 115–16, Boulder, CO 5, 281, 295–7 128 - 32Burke Park 282–3, 285–6, 289, 292–3, 297

Department of Parks and Recreation 282,	Projecto a Vela 320
297	Rehabilitación 320
Growing Up Boulder (GUB) 286–7	Terra Fluxus 320
Buffalo, NY 32	urban trees 3, 34, 37–8, 40–41, 356, 399
Cambridge, MA 4, 145, 154–6, 160–61, 453	canopy 31–2
Cambridge Riverfront Plan 156	isolated 39
Cambridge Zoning Ordinance 159	role in reduction of
East Cambridge Neighbourhood Study	air pollution 72
(1989) 158	pluvial flood risk 137
Land Program (MA) 156–7	under-investment in 75
Pedestrian Plan 156	urban water management 2, 50, 53, 62, 236
River, Charles 146, 156, 158	alternative techniques (ATs) 50
Towards a Sustainable Future 155	best management practices (BMPs) 50
Chicago, IL 31-2, 90, 94, 234	complimentary techniques (CTs) 50
Millennium Park 346	governance 56–8
Civil War (1861–65) 12	integrated urban water management
Clean Air Act (1963/1970/1990) 114	(IUWM) 50
Clean Water Act (1965/1972) 114	low impact development (LID) 50
Detroit, MI 236, 449	source control 50
Environmental Protection Agency (EPA) 30,	
	stormwater control measures (SCMs) 50
57, 109, 114–15, 157	stormwater quality improvement devices (SQIDs) 50
green infrastructure policy-making in 114	
Los Angeles, CA 232–3	stakeholders in 58–9, 61
Massachusetts Bay Transportation	sustainable urban drainage systems (SUDS)
Authority 160	2–3, 50, 60, 98, 402
National Environmental Policy Act (1969)	treatment trains 61, 63
114	water sensitive urban design (WSUD) 50–51,
New Orleans, LA 83	54–5
New York 84	implementation of 59–60
Brooklyn Bridge Park 346–7	urbanisation 11–12, 52, 87, 319, 445–6, 449
Central Park 31	peri-urbanisation 167
Central Park Conservancy 343, 346	role in biodiversity loss 87–9
Green Infrastructure Plan 114	suburbanisation 167, 446
High Line 346	urbanism 168, 186, 307, 313–14
Philadelphia, PA	
Green City, Clean Water programme 114	Van Zoest, J. 455
Seattle, WA 309, 361	Vaux, Calvert
Somersville, MA 146	parks designed by 32
urban forests in 38	Vietnam War (1955–75) 246
Universities Superannuation Scheme (USS)	Vlaamse Landmaatschappij (VLM) 110
partnership in Trumpington Meadows Land	
Company 152	Water Sensitive Cities (WSC) 54–6, 58
University of Colorado (CU) 296	Water Sensitive Urban Design 2
Environmental Design (ENVD) 287	Watson, N. 250
University of the Third Age (U3A) 455	Wellbeing Partnership 24
University of Washington	Wildlife Trust 356
Department of Landscape Architecture	Wildlife Trust for Bedfordshire,
361	Cambridgeshire and Northamptonshire
Urban Catchment Forestry 137	153
urban heat island (UHI) 43	Williams, A. 249–50
concept of 40	Women's Design Service (WDS) 212
urban planning 320	Woodland Trust 355
Critical Regionalism 320	World Health Organization (WHO) 11, 30
Landscape Urbanism 320	definition of health 15
Paisagem Global 320	recognition of disability 246