

Index

- Aarhus Convention *see* Convention on
Access to Information
academic institutions 78
accessibility, analysis 91
accountability and performance 60
accuracy 23
administration theory 29
administrative boundaries 76, 77
advocacy 108
Aeolian Plan, SEA
Castille and León, Spain 121
afforestation, Spain 118, 120
agricultural land, Spain 120
agriculture 63, 118, 159, 172
airports 161
air quality 75, 76, 77
Alfred, M. 188
alternatives 20, 30
selection 166
strategies 181
Alvarez-Arenas, Manuel 154–84
Amsterdam *see* Ijberg, Netherlands
analysis and analysts 60, 93
ANSEA (Analysing Strategic
Environmental Assessment) 38,
108, 124
approach 25, 41, 53–105
assessment based on 41–2, 64, 151
concepts 43–52
framework 28
illustrations 117–22
project 5–15
Report 100–02
Report on German case study 150–53
archaeological sites in Humber area, UK
120
assessment
environmental 25
matrices 95
modes 59
process 58
Pietro Caratti, Holger Dalkmann and the ANSEA Project 177–222
requirements 69
assumptions 104
auditing, procedural 107
awareness raising 108
Aycrigg, M. 184
Bailey, J. 34, 188
behaviour
of humans 30
individual 31
behavioural
biases 15
decision research 26
theories 27
benefit–cost ratio 138
bicycle as transport 6, 45
Bina, Livia 53–195
biodiversity 74, 77
loss of 172
Bongardt, Daniel 123–53
bottlenecks for traffic 91
Braybrooke, D. 184
Brown, A.L. 15, 19, 22, 184
Bruijn, H. de 33, 184
building 155
conditions 158
land 157, 166, 181
built-up area 165, 170
alternative strategies 181
delimiting of 155
Burkhardt, T. 186, 188
Canary Islands
Puerto de la Cruz, General Urban Plan
57, 154–83
Canter, L. 184
capital 13
Caratti, Pietro 1, 105, 117–22
Carson, Rachel (*Silent Spring*) 36, 184
case studies 13
in the ANSEA Project 177–222

- Castille, Spain 121–2
 cattle roads 161
 Chadwick, A. 186
 Clark, M. 7, 184
 Clark, R. 18, 20, 184, 188
 climate change 74, 77
 CO₂ emission and transport 126
 cognitive limitations 15
 collective behaviour 30
 Colley, R. 184
 commercial federation 58
 communication
 plan 61
 systems 159, 165
 community facilities 156
 compatibility 75
 complicity 34
 comprehensiveness 40, 49, 55, 80–82,
 96, 132–4, 150
 compromise 32
 conflict 31
 congestion 171
 of traffic 172
 conservation of protected areas 75
 consultation 13, 2, 21, 56, 93, 107–8,
 144
 procedure 84
 Convention on Access to Information 78
 cost 152
 cost–benefit analysis 34, 46, 89, 106
 Council on Environmental Quality
 (CEQ) 10
 country strategies (CS) 86, 118–19
 credibility 4, 49, 55, 83, 132, 149, 150
 cycle as transport 6, 45
- Dagg, S. 188
 Dalkmann, Holger 1, 123–53, 187
 data
 availability 23
 collection and analysis 180
 decision
 analysis 26
 framework flowchart 66
 research 35
 science 35
 windows 43–50, 54, 76, 87–95,
 141–4, 176–81
 assessment of 145–50
 identification, in Spain 134, 178–9
 in the FTIP 90
 decisional boundaries 65
 decision-making 6, 12, 15–16, 35, 64,
 107
 flowchart 67
 implementation plan 102
 process 15–16, 23–8, 37, 43–9, 54–9,
 66–7, 74–5, 88, 95–6, 102–3,
 107–11, 133, 164–9
 review 102
 sciences 26–7
 theory 26, 41
 democratic reforms 39
 demographic matters 46
 depletion 171
 descriptive approaches 27
 development projects 6
 bilateral, in Sweden 118
 diagnosis 44, 164, 165
 district plans 11
 Djeddour, M. 8, 190
 document analysis 153
 documentation 93
 driving conditions, Germany 126
 Dunn, W. 185
 Dutch Environmental Impact
 Assessment Commission 185
 Dutch Strategic Environmental
 Assessment system 9
- Easter, W. 188
 Eckey, H.F. 185
 ecological
 footprint 172
 risk analysis 138, 145, 147
 sites, valuable 176
 economics 27
 assessments 70
 development 113
 forecasting 165
 ecosystems 75, 156
 fragile 72, 170, 172, 181
 education 39
 elections 34
 electric system in Portugal 118
 emissions 125
 energy 10, 63, 76, 118, 120, 156, 181
 consumption 172
 efficiency 76
 shortages 181

- English, M. 189
- environment
- assessment 16, 34–8
 - dimension 13
 - focus 22–5
 - process 9
 - concerns 129
 - criteria 72
 - effects and impacts 15–16, 18, 21, 126
 - expertise 81
 - implications 43, 45
 - integration 54
 - negative urban dynamics 169–70
 - policy 68, 107
 - protection 108, 111
 - quality 7
 - values 75
- Environmental Impact Assessment 5–15, 18, 22, 36, 177, 183
- Act 1987 (Netherlands) 12
- Law 162
- methodology 13, 19
 - model 10
 - procedures 15
 - techniques 19
- estuarine landscape, United Kingdom 119–20
- Etzioni A. 34, 37, 185
- European Analytical Strategic Environmental Assessment 117
- European Commission 17, 124, 185
- European Directive on SEA 19, 22, 106–14, 125
- European Union 78, 124
- Common Agricultural Policy 120
 - Workshop on EIA methodology 13
- Evren, S. 185
- expert opinion 84
- Faludi, A. 31, 37, 186
- Federal Agency for Nature Conservation 138
- Federal Environment Agency, Germany 47, 143, 147
- Federal Ministries 139
- Federal Railway Extension Act, Germany 127
- Federal Transport Infrastructure Planning, Germany (FTIP) 43, 57, 89–90, 118, 125–53
- Federal Trunk Road Act, Germany 127
- feedback procedure 152
- Feldmann, L. 6, 10, 185
- fertile lands 172
- financial planning 138
- resources 80
- Fischer, T. 127, 183, 185, 186
- fisheries 63
- flexibility 61
- flipchart 66
- flood
- defences in UK 120
 - plain, Humber 120
 - flora and fauna 129
- forecasting 17, 67, 90, 137
- forestry 63, 120, 161
- Fourth European EIA Workshop 9, 17
- FTIP *see* Federal Transport Infrastructure Planning, Germany
- fuel taxes 129
- garbage can model 34, 37, 38
- Garcia, Mercedes 154–83
- gardens, regulating 159
- gender impact 4, 673, 104
- General Urban Plan, Puerto de la Cruz 57, 65, 154–83
- institutional participation 163
- German Federal Railways 126
- Germany 57, 118, 121, 123
- case study 85, 89–93
 - FTIP *see* Federal Transport Infrastructure Planning
 - Länder 130, 136, 147, 151
 - reunification 126, 129
- goal setting 44, 67, 164, 177–80
- Gorissen N. 186
- government 70
- agencies 7
 - decisions 67, 92, 144
 - publications 88
- Green, H. 31. 186
- green
- areas 156, 165
 - Ministers 11
- greenhouse gases 75, 77, 125–6, 151, 173
- Gregory, R. 186
- ground water 76
- Harati, Holger Dalkmann and Rodrigo Jiliberto - 9781845421533
- Puerto de la Cruz 173

- group discussion 46
- guidance 109
- guidelines 13

- habitat fragmentation 125, 151
- Hammond R. 30, 186
- Haq, Gary 186
- Hardin, R. 186
- health 39, 63, 74, 104
- Heaney, D. 189
- Herik, K.W. van den 35, 389
- Herrington, J. 7, 184
- Heuvelhof, E. ten 184
- Hill, M. 29, 186
- historic buildings 120
- Hoppenstadt, A. 24, 186
- housing in Ijburg, Netherlands 119
- Hughes, J. 187
- human
 - communities 75, 76
 - limitations 32
- Humber Estuary management Plan, UK 118–20
- hydrological public domain system 158

- identification 85
 - of criteria 72
- Ijburg, Netherlands 119
- impact prediction 17
- incrementalism 34, 37
- industry 63, 78, 173
- information 20, 30, 56, 60
 - collection 44, 58, 82, 164
 - flows 107
 - sources 113
- inland waterways 57, 123–53
 - see also* motorways, railways
- Inputs, Analysis and Outputs (IAO) 46, 55, 112
- Institute of Environment Assessment (IEA) 7
- institutional
 - context 68, 110, 156
 - framework 66, 127
- Insular Development Plan for Tenerife (PIOT) 159
- integrated approach 54, 113
- interest groups 58, 144
- interests, conflicting 31

- International Association for Impact Assessment (IAIA) 7
- International Effectiveness Study 13
- International Institute for Urban Development (IIUD), Delft 119
- International Study of the Effectiveness of Environmental Assessment 13
- interviews 87, 141, 145
- investment 35, 127
 - in transport modes 92
- irrigation 173
- Italy 118, 121

- Jansen, P. 189
- Jerrington, J. 184
- Jiliberto, Rodrigo, I. 16–53, 154–84
- Johnson-Laird, P.N. 28, 186

- Keeney, Ralph. 27, 30 35, 186
- Kingdon, J. 34
- Kleindorfer, P. 27, 28, 186
- Kleinschmidt, V. 1, 9, 124, 186, 189
- Kornov, L. 15, 22, 34
- Kraft, M. 186
- Kunreuter, H. 186

- land
 - built-up 155
 - classification 170, 180–81
 - consumption 172
 - demand 181
 - on-built 155, 165, 166
 - use 11, 61, 63, 75, 165, 172
 - planning requirements 156, 157, 177
 - in Valladolid, Spain 121–2
- land-owner duties and rights 156
- landscape 6, 91
 - preservation 129
- Law of Territorial Development, Spain 161
- legislation 10, 32, 67, 92, 139, 144
 - environmental 161
 - at EU level 75
 - process 152
 - and public policy 68
 - sectoral 161
- legitimacy 31

- Liguria, Italy 121
see also waste management
- Lindblom C.E. 33, 36, 37, 184, 187
- lobbying 56
- local
 administration 161
 communities 78
- MacGillivray, Ann 53–105
- Madrid 121
- man-made environment 165
- March, J.P. 34, 37, 187
- Marcus, A. 186
- marine contamination 173
- maritime zones 161
- member states of the European Union
 124
- memory 32
- method modernization 137
- Miller, G. J. 187
- Ministry for Foreign Affairs, Stockholm
 187
- Ministry of Transport, Germany 136,
 148, 151
- mitigation measures 6, 20
- mobility demands 159
- modernization of methods, 67, 90, 143
- monitoring procedure 20, 67, 152
- Morris, P. 187
- motorways 56, 89, 120, 123–53
see also inland waterways, railways
- municipal facilities 165
 in Spain 155
- mutual learning 71
- national
 defence strategies 78–9
 plans 157
 policy statements 11
 transport policy, Germany 127
 trunk roads 128
- National Environment Policy Act, US
 (NEPA) 5, 6, 7, 10
- National Territorial Plan Coordination
 157
- natural
 environment 165
 resources 13, 76, 172
- nature conservation 129
- needs assessment 60
- Netherlands 11, 118
- network approach 33
- networking model 41
- New Zealand 11
- Nida-Rumelin, J. 29, 187
- Nilsson, Mans 26–42, 53–105
- noise 74, 91, 125, 126, 172–3
 barrier 6
 effects 131
 emissions 126
- non-built land 181
- non-governmental organisations 58, 139
 representatives 87
- Noorbakhsh, F. 6, 187
- Nooteboom, S. 9, 187
- objective assessments 35
- objectives 72, 125
 framing 30
- objectivity in humans 32
- Olsen, J.P. 34, 187
- optimization principle 41
- options development 67
- organizational framework 70, 110
- organization theory 27, 28, 29
- organograms 71–3
- O’Riordan, T. 5, 187
- Palerm, J. 188
- parks and green areas 165–6
- parliamentary objectives 70
- participation 49, 81, 83, 97, 132, 150
- Partidário, M. 6–8, 10, 12, 14, 20, 36,
 183
- perception 32
- performance 60
- perspectives, changing in Environmental
 Assessment 24
- Petts, J. 5, 35, 36, 88
- PIOT *see* Insular Development Plan for
 Tenerife
- Pirotte, C. 185
- planning 117
 instrument 157
 least cost 153
 process 12, 35, 110, 176–7
 short-term 180
 workshops 61
- Planning Policy Guidance Notes 11
- plans and programmes 63

- policies, plans and programmes (PPP) 6,
8, 13, 15, 18, 58
formulation 13, 22
legal context 68
objectives 69
- policy
analysis 26, 38
decision, higher-level 35
objectives 19
requirements 75
- political support 13
- pollution
atmospheric 172
of water sources 171
- population 120, 165, 171
density 122
- ports 161
in United Kingdom 120
- Portugal 118, 120
- prediction of consequences 17–19
- preferences 15, 34
- pressures 34
- priority rating 138
- Pritchard, D. 189
- private spaces 156
- PROACT (Problem, Objectives,
Alternatives, Consequences,
Trade-Offs) 30
- procedural criteria (PC) 21, 43, 46–50,
54–7, 62, 72–5, 79–84, 95–6,
132–3, 149–50, 154, 166–76, 182
- process models 33
- professional people 78
- Programme Environment Impact
Statement (PEIS) 11
- projects 67, 70, 86, 91, 137, 148
- protected areas 76
- psychology 27
- public
access to information 80
administration 87
concern 76
consultation 95, 96
institutions 159
participation 13, 55, 61, 74–9, 84,
107–8, 162, 164
spaces 156
- Public Participation in Decision Making
and Access to Justice in
Environmental Matters 78
- Puerto de la Cruz, General Urban Plan
57, 154–83
- quality control 13
- Raiffa, H. 27, 30, 35
- Railway Act, Germany 127
- railways, Germany 57, 67, 120–21,
123–53, 161
see also inland waterways, motorways
- Ranjan, S. 6, 187
- rationality theory 27–41
- rational choice 30–31
- reality check 13
- regional government strategy 164
development strategy 171
environment agency 162
planning 11, 118, 157
road plan 159
strategy 70
- Renton, S. 34, 188
- reporting 62, 65, 87, 101
- Resource Management Act 11
- resource requirements 61
- Richardson, J. 188
- Rink, S. 127, 188
- risk analysis 152
- River Basin Authority, Spain 73
- roads 57, 91, 126, 127, 131, 159
pricing 129
projects 147
system, regional 159
- Rothke, P. 188
- rural areas, 172
- rural sustainable development 77
- Rustic Land Planning Law 165
- Sadler, B. 5, 6, 9–12, 17–20, 60,
188
- safety 129
- scale 76
- Scharpf, F.W. 188
- Schmitz, S. 186
- Schoemaker, P. 186
- scoping 36, 55, 56, 65–6, 87, 93, 124,
155–6
- screening 61–5
- self-assessment 60
- self-interest 29
- Seoanez Calco, M. 188

- services, location 159
 settlement patterns 173
 sewage water 173
 Sewell, W.R.D. 5, 187
 Sexton, K. 27, 186, 188
 Shafir, E. 28, 186
 Shapiro, I. 31, 186
 Sheate, W. 183, 188
 SIDA
 see Swedish International
 Development Co-operation
 Agency
Silent Spring (Carson) 36
 Simon, Herbert 8, 27, 29, 32, 37
 social demand 19, 46
 development 113
 phenomena 30–31
 profiling 60
 socio-economic situation 165
 sociological theory 30
 soil 76, 173
 Spain 57, 75, 18, 118, 121, 154–83
 agricultural land 120
 case study, Puerto de la Cruz 154–83
 legislation 57
 Valladolid 121
 spatial planning 119, 129
 in Ijburg, Netherlands 118
 system 127
 units 76, 77
 stakeholders 66, 76, 89, 93, 125, 130
 analysis 60, 70–71
 interviewing 85, 145
 Steen, U. 188
 Stock, W. 185
 Stockholm Environment Institute (SEI)
 Sweden 99, 119
 Strategic Environmental Assessment
 (SEA) 5–15, 17, 117, 153, 183
 decision-making sciences 19–21,
 26–42
 experience and legislation 22
 stresses 75
 surface water 76
 sustainability 6, 8, 46, 55, 63, 74, 79,
 104, 113, 155
 development 107, 109
 issues 81
 profile 182
 Sweden 39, 57, 86, 94, 93, 98
- Swedish bilateral development
 co-operation 40
 Swedish case study 85
 Swedish International Development
 co-operation Agency (SIDA) 57,
 70, 86, 94, 119
- target system 152
 Tarquini, Ricardo 53–105
 TAU Consultora Ambiental, Madrid,
 Spain 119
 taxonomy of decision-making models
 28–36
 technical experts 87
 technologies, future 13
 telecommunications 63
 Tenerife, Canary Islands, Spain 57, 73,
 154–183
 terrestrial transportation 161
 territorial plan 157
 aspects 165
 legislation 161
 model 156
 planning 118, 11
 Therivel, R. 5, 6, 7, 14, 15, 19, 20, 22,
 36, 183, 184–9
 Thissen, W. 15, 34, 186
 Thompson, S. 189
 Thyssen, W. 22, 186
 timeliness 40, 49, 74, 80, 82, 132, 134,
 149–50
 Tonk, J.A.M.N. 189
 Tonn, B. 189
 tourism 63, 158, 159, 171, 173
 town
 and country planning 63
 expansion in Spain 119
 trade-offs 30
 tradition 172
 traffic 91, 172–3
 transparency 40, 49, 55, 74, 80–82, 97,
 132–4, 149, 150
 transport 10, 61, 63, 118, 129, 155
 flows 45
 Germany 118, 123–53
 infrastructure 57, 126, 127
 long-distance 120–21
 modes of 6, 91
 planning 45, 104, 128
 safety 129

- Transport Projectors of German Unification 126
- Trapero, J.J. 189
- travel time 89, 129
- Travis, C. 189
- Trunk Road Extension Act, Germany 127 130
- trunkroads planning 67
- trust 31

- United Kingdom, Humber Estuary 118–19
- Umweltbundesamt, Berlin 189
- United States 34
- urban
 - air quality 49, 74
 - areas, special 157
 - development criteria 18, 137, 179
 - environment 165–6
 - growth 156, 165
 - instruments, hierarchy 158
 - legislation 161
 - planning 57, 118, 156–62, 169 170
 - and environmental implications 172–3
 - Spain 73, 118, 119, 172–3
 - process, organization of 177
 - saturation 181
 - structure, Spain 122, 165–6
 - system 180
- urbanization 158
- US National Environment Policy Act (NEPA) 5, 6, 7, 10
- utilities 29

- Valladolid Area Territorial Planning 118, 121
- valuation
 - of projects 92, 138, 144
 - tool 145, 147, 152, 153
 - value-free humans 32
 - value judgements 36
 - values 23, 29
 - Vanderhaegen, M. 185
 - Verheem, R. A. 10–20, 60, 188–8
 - Vries, M. de 35, 184
 - vulnerability of resources 75

 - Wagner, D. 9, 19, 124, 186, 189
 - waste 63, 118
 - disposal 120, 172
 - management 75, 155,
 - in Liguria region, Italy 121, 118
 - production 155
 - recycling 121
 - transport 121
 - water 56, 91, 118, 159, 181,
 - demand 159, 173
 - drinking 173
 - management 63
 - pollution 173
 - quality 74
 - sources, pollution of 171
 - waterways 120, 126
 - Weber, Max 27, 28, 189
 - Weston, J. 27, 31, 33
 - Wildavsky, A. 35, 189
 - Wilson, E. 189
 - wind power production, SPain 121
 - Wink, R. 189
 - Wood, C. 8, 9, 189, 190
 - Wuppertal Institute, Germany 120
 - see also* railways, Germany

 - Xeraco, Valencia 177

 - Zey, M. 31, 190