Achilles Heel, 24	Austrian Climate and Energy Fund,
Adaptation, 48, 68	58
assessment, 48	Authoritative imposition, 6, 106
'Adaptive' governance approaches,	Aviation industry, 82
107	Avoidance, 105
Advocacy bodies, 38	denial and minimal responsibility, 69
Air pollution, 87	Avoidance strategy, 111
Air quality, degradation of, 86	Awareness of climate change, 47
Air travel, growth in, 88	
Airbnb phenomenon, 13	Behavioural change, 20, 49, 54
Alpine transport	Behavioural economic instruments,
in Dolomites World Heritage Site,	51–52, 55–56
109–115	Benzene, 87
governance approaches to tackle	Brazil, 7, 12, 121, 147
wicked problems in tourist	Bulgaria, 7
transport, 105–107	Bulgarian tourism policy ecosystem,
problem framing and policy	11
instruments in tourist	'Business-as-usual' approach, 37
transport, 107–109	**
tourist transport management as	Cable car industry, 56
wicked problem in context	Carbon dioxide (CO ₂), 84, 86, 90
of tourism public policy,	Carbon emissions, 82
103–109	Carbon footprint of tourism in South
Alpine winter destination, 46	Africa, 83, 91–92
Annals of Leisure Research, 23	Carbon monoxide (CO), 86–87
Arctic Finland, 67	Carbon Offsetting and Reduction
climate change in, 67	Scheme for International
climate change policies and	Aviation, 83
tourism in, 71–73	Carbon sinks, 71
costs and benefits of climate	Carrot measures, 108
change for tourism in,	Case studies, 7, 12–13, 152
73–75	Chile, 7, 11–12, 147
wickedness of tourism	China, 140
development and climate	tourism under COVID-19
change nexus, 68–71	restrictions in, 141
Austria, 46	Citizen involvement, 13
application to context of winter	Citizen participation, 13
tourism in, 52–58	City and provincial health QR codes,
Austria Advertising Agency, 50	142

Climate change, 8	Data science, 14
climate change, o	Decision making, 5, 11, 14, 19, 49, 69,
costs and benefits of climate	130
change for tourism in	Demographic shifts, 4
Arctic Finland, 73–75	Depletion of natural resources, 91
negative impact of, 89–90	'Depoliticising' conflict, 37
nexus, 68–71	Destination governance, 113
policies in Arctic Finland, 71–73	Destination marketing and tourism
risk assessment, 48	recovery, 166–167
stakeholders, 48	Destination marketing organisations
as super wicked problem, 68–70	(DMOs), 128–129
and sustainable tourism	Developing countries, 122, 124, 127,
development, 70–71	130–131
Climate emergency, 6	Diaspora, 12
Climate researchers, 47	Digital aspect, QR codes, 151
Coercive controls, 53, 69	Digital transformation, 4
Collaboration, 39	Divergent framing, 107–108
Collaborative dialogue, 6, 69	Diversity, 13, 39
Combustion of jet fuel, 84	Diversity management, 13
Commercial industry associations, 38	Dolomites World Heritage Site,
Communication strategy, 50	109–115
Compartmentalised micro-	Domestic tourism, 168
management, 69	Double Movement Theory, 13
Complexity, 35	
Constitutional process, 12	Eco-tourism enterprises, 38
Contrails, 90	Economic relief package and support
Coordination, 20	for individuals and
Coping and prevention policies, 69	businesses, 164–165
Cost overrun, 14	Economic steering instruments, 51,
'Covid Zero' approach, 125	54–55
COVID-19 pandemic, 9, 32, 67, 73,	
120 150	Ecosystem of Hospitality, 14
120, 158	Effective governance, 20
contribution of tourism to	Effective governance, 20 Effectiveness of mitigation and
contribution of tourism to economy, 161	Effective governance, 20 Effectiveness of mitigation and adaptation measures, 47
contribution of tourism to economy, 161 destination marketing and tourism	Effective governance, 20 Effectiveness of mitigation and adaptation measures, 47 Electric cars (EVs), 89
contribution of tourism to economy, 161 destination marketing and tourism recovery, 166–167	Effective governance, 20 Effectiveness of mitigation and adaptation measures, 47 Electric cars (EVs), 89 Employee safety, QR codes, 151–152
contribution of tourism to economy, 161 destination marketing and tourism recovery, 166–167 government policies, 163–166	Effective governance, 20 Effectiveness of mitigation and adaptation measures, 47 Electric cars (EVs), 89 Employee safety, QR codes, 151–152 Environmental impact assessment, 57
contribution of tourism to economy, 161 destination marketing and tourism recovery, 166–167 government policies, 163–166 outbreak of COVID-19 in	Effective governance, 20 Effectiveness of mitigation and adaptation measures, 47 Electric cars (EVs), 89 Employee safety, QR codes, 151–152 Environmental impact assessment, 57 Environmental sustainability, 35
contribution of tourism to economy, 161 destination marketing and tourism recovery, 166–167 government policies, 163–166 outbreak of COVID-19 in Maldives and border	Effective governance, 20 Effectiveness of mitigation and adaptation measures, 47 Electric cars (EVs), 89 Employee safety, QR codes, 151–152 Environmental impact assessment, 57 Environmental sustainability, 35 European Alps, 47, 50
contribution of tourism to economy, 161 destination marketing and tourism recovery, 166–167 government policies, 163–166 outbreak of COVID-19 in Maldives and border closure decisions, 161–163	Effective governance, 20 Effectiveness of mitigation and adaptation measures, 47 Electric cars (EVs), 89 Employee safety, QR codes, 151–152 Environmental impact assessment, 57 Environmental sustainability, 35 European Alps, 47, 50 European energy law, 54
contribution of tourism to economy, 161 destination marketing and tourism recovery, 166–167 government policies, 163–166 outbreak of COVID-19 in Maldives and border closure decisions, 161–163 review of government policies, 168	Effective governance, 20 Effectiveness of mitigation and adaptation measures, 47 Electric cars (EVs), 89 Employee safety, QR codes, 151–152 Environmental impact assessment, 57 Environmental sustainability, 35 European Alps, 47, 50 European energy law, 54 European Environment Agency
contribution of tourism to economy, 161 destination marketing and tourism recovery, 166–167 government policies, 163–166 outbreak of COVID-19 in Maldives and border closure decisions, 161–163 review of government policies, 168 tourism industry in Maldives,	Effective governance, 20 Effectiveness of mitigation and adaptation measures, 47 Electric cars (EVs), 89 Employee safety, QR codes, 151–152 Environmental impact assessment, 57 Environmental sustainability, 35 European Alps, 47, 50 European energy law, 54 European Environment Agency (EEA), 55
contribution of tourism to economy, 161 destination marketing and tourism recovery, 166–167 government policies, 163–166 outbreak of COVID-19 in Maldives and border closure decisions, 161–163 review of government policies, 168 tourism industry in Maldives, 158–161	Effective governance, 20 Effectiveness of mitigation and adaptation measures, 47 Electric cars (EVs), 89 Employee safety, QR codes, 151–152 Environmental impact assessment, 57 Environmental sustainability, 35 European Alps, 47, 50 European energy law, 54 European Environment Agency (EEA), 55 European Union climate policy
contribution of tourism to economy, 161 destination marketing and tourism recovery, 166–167 government policies, 163–166 outbreak of COVID-19 in Maldives and border closure decisions, 161–163 review of government policies, 168 tourism industry in Maldives, 158–161 wicked problem for governance of	Effective governance, 20 Effectiveness of mitigation and adaptation measures, 47 Electric cars (EVs), 89 Employee safety, QR codes, 151–152 Environmental impact assessment, 57 Environmental sustainability, 35 European Alps, 47, 50 European energy law, 54 European Environment Agency (EEA), 55
contribution of tourism to economy, 161 destination marketing and tourism recovery, 166–167 government policies, 163–166 outbreak of COVID-19 in Maldives and border closure decisions, 161–163 review of government policies, 168 tourism industry in Maldives, 158–161 wicked problem for governance of tourism, 123–128	Effective governance, 20 Effectiveness of mitigation and adaptation measures, 47 Electric cars (EVs), 89 Employee safety, QR codes, 151–152 Environmental impact assessment, 57 Environmental sustainability, 35 European Alps, 47, 50 European energy law, 54 European Environment Agency (EEA), 55 European Union climate policy (EU climate policy), 71
contribution of tourism to economy, 161 destination marketing and tourism recovery, 166–167 government policies, 163–166 outbreak of COVID-19 in Maldives and border closure decisions, 161–163 review of government policies, 168 tourism industry in Maldives, 158–161 wicked problem for governance of	Effective governance, 20 Effectiveness of mitigation and adaptation measures, 47 Electric cars (EVs), 89 Employee safety, QR codes, 151–152 Environmental impact assessment, 57 Environmental sustainability, 35 European Alps, 47, 50 European energy law, 54 European Environment Agency (EEA), 55 European Union climate policy

Index 173

Finnish Arctic, 71	Incremental adjustments, 69
Finnish tourism policy-making, 11	Incremental and pragmatic adjustment
First Nations Peoples, 11	of policies, 69, 107
Fishing, 71	Indigenous disparities, 4
Food and beverage industry,	Indigenous resistance, 12
QR codes, 150–151	Indigenous tourism in Chile, 11–12
Framing, 35, 48	Instruments and tools, 52
	Integration, 23
Gambia, 12	Intergovernmental Panel on Climate
Gender inequity, 13	Change (IPCC), 67
Gender studies, 13	International Air Transport
Germany, 7, 11, 152, 162	Association (IATA), 82
Global tourism, 67	International Civil Aviation
Global Tourism Crisis Committee, 163	Organization (ICAO), 82
Global warming, 89	International Monetary Fund, 125
Governance, 19–20, 52, 56–57	International tourism growth, 8
approaches to solve 'Tourism-	international tourism growth, o
Traffic Paradox' in	Jet fuel burning, 88
Dolomites WHS, 111–115	set ruer ourning, oo
approaches to tackle wicked	Labour informality, 7, 10
problems in tourist	Lead, 86–87
transport, 105–107	Leadership groups, 39
patterns in tourist destinations, 12	Legal and normative instruments, 51,
Government expenditure on	53–54
COVID-19, 165–166	Limited Traffic Zone (LTZ), 111
Government of Maldives, 10, 158	Limits to Growth, 18
Government of Waldres, 10, 138 Government policies, 163–166	Long-term coping and prevention
Greenhouse gas emissions (GHG	strategies, 6, 107
emissions), 84, 102	strategies, 0, 107
Greenwashing, 24	Maldives Monetary Authority
Gross domestic product (GDP), 85	Maldives Monetary Authority (MMA), 161
Gloss dolliestic product (GDF), 83	Managing Director of Maldives
Health preparedness and conscitu	Marketing and Public
Health preparedness and capacity building, 165–166	_
	Relations Corporation
Herding, 71	(MMPRC), 167
High emissions intensity, 88	Megatrends, 4
Hospitality	Micro-management approach, 6, 106,
organisations, 14	112
QR codes, 148–149	Middle East respiratory syndrome
Human health, deterioration of, 87–88	(MERS), 161
Hunting, 18, 71	Migration, 12
Husky safaris, 73	Ministry of tourism, 165–166, 168
Hydrocarbons (HC), 86	Mitigation, 48, 67
1 1 4 4 9 20 114 149	Mobility, 9, 89, 110
Implementation, 8, 20, 114, 148	Moderation processes, 52, 58
Incremental 'muddling through', 6	Modus operandi, 5
Incremental adaptation process, 55	Multi-level governance system, 11

National Climate Act (2015), 71	instruments in tourist transport,
National Emergency Operation	107–109
Centre (NEOC), 163	making, 8, 20
National Energy and Climate Plan,	outcomes, 107
56	problems, 22
National park movement, 18	process, 36, 107
Network, 52	response strategies, 6
governance, 20	of travel QR code from 2020 to
Nitrogen dioxide, 87	2022, 142–144
Nitrogen oxides (NO _x), 86, 90	Political element, 21
	Political project, 20
Olympic Games, 14	Pollution, 91–92
Organisation for Economic	Poverty, 36
Cooperation and	Power relations, 23
Development, 125	Practice, 18–19, 141
Our Common Future, 18	Pragmatic adjustments, 69
Overtourism, 22, 91	Pre-COVID-19 paradigms, 122
Ozone, 87	PreViaje, 10
	Proactive spatial planning, 57
Pacific Asia Travel Association	Problem avoidance, 6, 125
(PATA), 163	Problem framing, 35
Pandemic, 141	in tourist transport, 107–109
Pandemic governance, 120	Problem-solving, 36
COVID-19 as wicked problem for	Psychology instruments, 51–52,
governance of tourism,	55–56
123–128	Public policy scholars, 35–36
fractured responses of Australian	Public Private Partnership, 129
governments to	
COVID-19, 131–135	QR codes, 9, 140
literature review, 128–131	city and provincial health QR
Paradox theory, 10	codes, 142
Particles, 90	digital aspect, 151
Particulate matter, 86–87	employee safety, 151–152
Physical impacts, 92	food and beverage industry,
Pilot projects, 106	150–151
Plan T, 52–53, 56	hospitality and tourism, 148-149
Planning instruments, 52, 56–57	policies of travel QR code from
Platform economy, 8	2020 to 2022, 142–144
Policy/policies, 20, 92	tourism under COVID-19
adjustment strategy, 114	restrictions in China, 141
design, 14	travel QR code, 144–146
and destination management, 52	vaccination QR code, 148
formulation, 7	Quarantine and isolation facilities,
framing, 14	165
governance, 37–39, 105	Queensland First Nations Tourism
implementation, 23	Plan 2020–2025, 11

Index 175

Rational planning, 33	Sustainable Aircraft Fuels (SAF), 89
Reflexivity, 37	Sustainable development, 19–20, 70
Regional development, 66	Sustainable development goals (SDG)
Regional tourism development, 72	25, 66
Regulations, 92	'Sustainable Mobility of the Dolomite
Resilience, 37, 68	Passes' plan, 111
Responsiveness, 37	Sustainable tourism, 18, 32–33 (see
Revitalisation, 37	also Winter tourism)
Rio Summit Local Agenda 21	issue of, 19
(1992), 19	policy, 21
(' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	policy development successes and
Satakunta region, 11	failures, 22–25
Science-based technocracy approach,	sustainable development and
6, 112	governance, 19–20
Scientific analysis, 33	8
Severe acute respiratory syndrome	Technical snowmaking, 47
(SARS), 161	Technocratic approach, 111
Silent Spring, 18	Technocratic problem-solving, 69, 106
Situation monitoring unit (SMU), 165	Tibet Autonomous Region (TAR), 149
Smog, 86	Time scales, 39
Snowmobiling, 73	Tourism, 12–14, 50, 66, 102
Social equity, 35	in Arctic Finland, 71–73
Social innovation, 12–13	under COVID-19 restrictions in
Social science, 13	China, 141
South Africa, 82, 84	demand, 102
carbon footprint of tourism in,	governance, 129
91–92	help desk, 165
policies, regulations, and	and hospitality employment, 10
governance approaches	industry in Maldives, 158–161
in, 92	lobbying, 11
problems related to negative	policy making, 20, 70, 131
impacts of aviation carbon	policy/policies, 6, 13, 20, 66–67
emissions in, 85–90	public policy, 6
Spatial development, 14	QR codes, 148–149
Stadium, 14	recovery, 158
Stakeholder collaboration, 69, 107	structures, 11
Stakeholder engagement, 58, 69	system, 15, 68
Stakeholders participation, 23	Tourism Business Council of South
Stick measures, 108	Africa (TBCSA), 84
Strategic environmental assessment,	Tourism-traffic paradox, 9, 103
57	Tourist arrivals, 159–161
Sulphur dioxide (SO ₂), 86–87	Tourist establishments, 158–159
Sustainability, 4, 18–19, 32, 66	Tourist transport management as
aspects, 32	wicked problem in context
governance, 68, 72	of tourism public policy,
paradox, 40	103–109

Traffic mobility, 103 specific strategies and tools to Transformation, 9, 148 address, 50-52 years of discourse on, 4-6 Transport management, 102 Travel QR code, 144-146 Wickedness, 5 'Triple bottom line' approach, 7 of tourism development, 68-71 Tyrolean policy, 53 Winter Love, 50 Winter tourism, 46–47 UNESCO World Heritage Convention, application and effectiveness of strategies and tools, **UNESCO** World Heritage Sites 53-58 programme, 24, 38 in Austria, 52-58 United Nations agencies (UN policies at national and federal agencies), 32, 82 level, 52-53 United Nations World Tourism problem framing, awareness and social discourse, 48-50 Organization (UNWTO), 24, 70, 121 specific strategies and tools to address wicked problems, Vaccination, 166 QR code, 148 Women in tourism, 168 Visitation system, 36, 38, 59, 112 Workforce, 10 Volatile organic compounds Workplace environment, 10 (VOCs), 86 World Bank, 125 World Health Organisation Water vapour, 90 (WHO), 124 World Heritage Convention, 10 West Africa, 12 Wicked policy, 11, 69 World Heritage Site (WHS), 109 Wicked problems, 4, 21, 33, 85, 103 World Tourism Organisation, 66 of carbon emissions, 8 framing issues, 35-37 Zero-COVID-19 perspective, 7-8 policy, 140-141

strategy, 9

policy governance, 37–39