Contributors

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David Annandale (BSc(hons), MA. PhD) is an international environmental and social safeguards consultant, working with multi-lateral development agencies such as the World Bank, Asian Development Bank, FAO, IFAD, UN Women, Green Climate Fund, Global Environment Facility, UNDP, UNEP, UNIDO, UNOPS, and UNICEF. He specialises in the design of environmental and social management frameworks, and undertakes EIA and SEA work in developing countries in Africa and Asia. For 13 years he was an academic at Murdoch University in Perth, Australia, teaching EIA and environmental policy to undergraduate and postgraduate students. He has published over 25 refereed journal articles, and is based in Edinburgh.

Thiri Aung (PhD) is a researcher at the Asia Center, Faculty of Arts and Sciences, Harvard University. Her current project explores the impacts of natural resource extraction on ethnic armed conflicts, the environment and livelihoods in conflict-affected areas in Myanmar. Prior to joining Harvard, Thiri was a Post-doctoral Researcher at the School of Environment and Energy, Peking University, China. Her project explored the environmental and socio-economic impacts of the Belt and Road Initiatives (BRI) with a particular focus on natural resource extraction and infrastructure development in the countries along the initiatives. She has published extensively on the EIA, LCIA, environmental economics, waste management, land use, land cover changes and environmental rights.

Berit Balfors (PhD) is a professor in Environmental Impact Analysis at KTH Royal Institute of Technology, Stockholm. She is also the head of the Environmental Management and Assessment research group. Berit has been working within the field of environmental assessment for over 30 years. Berit’s research is directed towards the application of environmental assessment in planning and decision-making in relation to different fields, for example transport, land use and water management.

Tanya Burdett has over 25 years’ experience in environmental assessment, planning and community engagement. Tanya has led on national level strategic environmental assessment in the UK in the transport, urban development and wastewater sectors, and has extensive program and project-level experience on various infrastructure programs, development approvals and strategic planning assignments throughout the UK and Asia-Pacific region. Tanya is a Registered Planner with the Planning Institute of Australia (PIA), Environmental Impact Assessment Quality Mark Panel member for the Institute of Environmental Management and Assessment (IEMA), and Licensed Trainer with the International Association for Public Participation.
Carolyn Cameron has over 40 years’ experience in environmental and strategic planning, working with the mining industry, universities, state and national governments in Australia. More recently Carolyn was a Senior Executive with the national government Department of Environment, leading teams to undertake strategic environmental assessments and regional sustainability planning across the country. Since 2015, she has been a senior consultant on complex environmental management projects, applying her skills in policy analysis, interpretation, stakeholder engagement and strategy development with state governments, the Great Barrier Reef Marine Park Authority and the National Food Waste Strategy.

Chaunjit Chanchitpricha (PhD) is Assistant Professor in the School of Environmental Health, Institute of Public Health, Suranaree University of Technology, Thailand. To date, her expertise in research mostly focuses on developing framework for investigating the effectiveness of impact assessment (IA) processes (EIA, EHIA, HIA, SEA) as applied in decision-making towards sustainable development. She is also fascinated by the fields of sustainability assessment (SA), engagement of stakeholders in IA public participation, and the effectiveness of policy, programme, and planning. She also teaches students in environmental health programmes (for undergraduate level), and environmental pollution and safety programmes (for postgraduate level).

Jonathan Coles (BA Hons) is a Masters student at the University of Liverpool studying environmental assessment and management. Formerly a geography student at Lancaster University, his past projects include an investigation into the socio-ecological resilience of informal settlements in Lagos and work with WSP regarding the proportionality of EIA scoping in England. His current research interests are broadly focused on the role of mitigation strategies proposed by EIA in planning. He is currently investigating uncertainty surrounding environmental mitigation strategies associated with housing developments in Shropshire, UK.

Marie Dahmen (MSc Env. Planning) is a research assistant at the German Federal Maritime and Hydrographic Agency working in the field of strategic environmental assessments for offshore wind energy and maritime spatial planning. Since 2011, she has been involved in several research projects on the development of wind energy. The assessment of alternatives in SEAs in the energy sector was the focus of her master’s thesis.

Charlotta Faith-Ell (PhD, MSc) is Associate Professor in Environmental Science at Mid-Sweden University. She is also Director of Research at WSP Civils in Sweden. Furthermore, Charlotta is co-owner of the Estonian Environment Institute (EKKI). She has been working within the field of environmental assessment for over 25 years. Her focus in both research and practice is on SEA and EIA in spatial planning with a strong emphasis on transport planning. Among other positions, she co-led the development and implementation of the Swedish planning system for transport and infrastructure. Also, she has developed the Swedish system for Gender Impact Assessment (GIA) in transport planning.

Thomas B. Fischer (PhD, Dipl-Geogr, FIEMA, FHEA), has 30 years of international practical, research and training, as well as teaching experience in Impact Assessment, including SEA, EIA, Sustainability Assessment, Health in Impact Assessments and others. He is Professor and Head of the Environmental Assessment and Management Research Centre at the University of Liverpool (UK) as well as Director of the WHO collaborating Centre on Health in Impact Assessments. He is also an Extraordinary Professor at North-West University, South Africa and an Honorary Staff Member at Berlin Institute of Technology, Germany. Thomas has written and edited several books, and has published over 100 refereed journal articles and numerous book chapters, as well as other documents, including SEA guidance.
Gesa Geißler (PhD) is senior researcher and lecturer at the Environmental Assessment and Planning Research Group at the Berlin Institute of Technology (Technische Universität Berlin) and visiting fellow at the Environmental Assessment and Management Research Centre at the University of Liverpool. Gesa holds a PhD in environmental assessment in the context of renewable energy development in Germany and the USA. She is interested in the effectiveness of impact assessment, environmental mitigation, and planning tools in the context of current trends such as digitalization, energy system transformation and climate change.

Davide Geneletti (PhD) is Associate Professor of Spatial Planning at the University of Trento. He has specialised in impact assessment of projects, plans and policies; ecosystem services and nature-based solutions; and multicriteria analysis. He was formerly Research Fellow at Harvard University’s Sustainability Science Program and Visiting Scholar at Stanford University’s Woods Institute for the Environment. He has consulted for the United Nations Environment Programme (UNEP), UN-HABITAT, and the European Commission. He has published over 150 journal articles. He is deputy Editor-in-Chief of the open-access journal *One Ecosystem*.

Mojca Golobič (PhD in landscape planning) has worked for 13 years as a researcher at the Urban Planning Institute of the Republic of Slovenia. Since 2003 she has been affiliated with the University of Ljubljana, where she took a full-time lecturing position in 2010 and the role of head of the Department for Landscape Architecture in 2012. She was Fulbright visiting lecturer at Harvard Graduate School of Design (2003/04) and visiting lecturer at several universities in USA and Europe. Her research work focuses on methodological issues of environmental and land-use planning, strategic impact assessments and the relation between landscape and people. She has participated in various international and domestically funded projects in which she also took on the lead role several times.

Ainhoa González (PhD, BScAg, MScERM, HDipEnvEng) has over 20 years of international experience as an environmental planner, and as a researcher and educator in SEA, EIA, Appropriate Assessment, environmental management and Geographic Information Systems (GIS). She is currently Associate Professor and Head of Teaching and Learning in the School of Geography, University College Dublin. She is the programme director of the MSc in Geospatial Data Analysis. She is a board member of the International Association for Impact Assessment UK–Ireland branch, of the Spanish Association for Impact Assessment, and of the Earth Institute. Ainhoa has written over 70 peer-reviewed journal articles and book chapters. She has also published several SEA, AA and GIS guidance manuals for the Irish Environmental Protection Agency.

Rodrigo Jiliberto H is an economist (Hochschule für Ökonomie Bruno Leuchner Germany) and holds an MSc in Economic Development, FLACSO Ecuador. He is a senior International Consultant and currently professor of environmental public policy at the Faculty of Physical and Mathematical Sciences of the University of Chile. He has 30 years of professional experience in strategic environmental assessment and analysis, environmental and sustainability policy formulation, and environmental economics. He has worked on the formulation of environmental and sustainable development policies, plans and programs in Spain, Europe and Latin America (Chile, Colombia, Dominican Republic, Panama, Uruguay, Brazil and Salvador). He has written many papers related to his field of expertise in international refereed journals.
Marie Hanusch, (PhD, Dipl.-Ing.) co-owner of Bosch & Partner consultants, Germany, is a landscape planner and holds a PhD on SEA and monitoring. She has 20 years of practical, research and teaching experience in environmental assessment. Her focus is on SEA, EIA and Appropriate Assessment in spatial planning, transport, water management and renewable energies, and recently on developing methods for impact assessment under the European Water Framework Directive. Among other responsibilities, she co-leads a research study on the evaluation of SEA in Germany. Marie is Vice Chairperson of the German EIA Association and Chairperson of the SEA task force by the German EIA Association. She is also a lecturer in Environmental Assessment at the Leibniz University of Hanover.

Samuel J. Hayes (PhD, FHEA) has over 10 years’ experience in environmental assessment and research. Through his work he has written about Strategic Environmental Assessment, Sustainability Appraisal, Health Impact Assessment, as well as other aspects of the environment, including flood risk and green infrastructure. He is Research Fellow in Urban Ecology at the University of Salford, Manchester. His current research spans environmental assessment and environmental planning, with interests in how we relate to, value, utilise and plan green spaces.

Christina Hörnberg holds a PhD in law from Umeå University. She is the owner of the Environmental Law and Development Centre Sweden AB. She has a special expertise in the area of EIA and environmental law, e.g. EIA in road and railway building and pollution. Christina has several years of experience in environmental law matters, such as environmental permits in general, applications for wind power plans on land and offshore within Swedish EEZ, gas pipelines, nature reserve areas, Nature 2000 areas, and the handling of contaminations in soil and waters.

Urmila Jha-Thakur (PhD, MBA, BA Geog Hons, FHEA), has 18 years of experience with environmental assessment (EA) through research and consultancy. Her research interest is primarily on planning and management of environmental sustainability and in exploring ways for making policies, plans, programmes and project developments more environmentally sustainable. She has worked on both EIA and SEA, with a focus on e.g. health, climate change, education, green infrastructure and learning. Urmila also looks into environmental sustainability within the business and urban context. She takes a special interest in developing and emerging economies. Urmila has been awarded thrice by IAIA for her work on EA and has been involved in training the expert committee members of the Ministry of Environment Forest and Climate Change in India.

Sara Khoshkar holds an MSc in Environmental Engineering/Sustainable Infrastructure and a PhD with specialization in environmental management and assessment from KTH Royal Institute of Technology. Her key research interests include EIA, SEA, ecosystem services and spatial planning. Since 2013, she has been involved in research projects, including SPEAK (Sustainable Planning Environmental Assessment Knowledge) and ISSUE (Integrating Sustainability Strategies in Urban Environments). She has over seven years of teaching experience in EIA and SEA courses at KTH.
Johann Köppel (PhD) is a full professor at the Berlin Institute of Technology (Technische Universität Berlin) and head of the Environmental Assessment and Planning Research Group. His research is focused on the evaluation and development of environmental assessment and planning tools. Over the course of the last 20 years, the sustainable development of renewable energy sources has also been a particular research focus. Johann Köppel is a member of the German EIA Association Advisory Board.

Cian O’Mahony (MSc) works in the Strategic Environmental Assessment Unit of the Irish Environmental Protection Agency. He has over 11 years of experience in reviewing and assessing plans and programmes falling under the remit of the SEA Directive (2001/42/EC) and is a member of the Irish National SEA Forum. Cian has contributed significantly to many of the SEA-related guidance notes and SEA resources published on the EPA’s website.

Anne Caroline Malvestio (BEng; PhD) is Professor at the Federal University of Uberlândia (Brazil), where she teaches environmental management, Environmental Impact Assessment, environmental licensing and mitigation. Past publications have addressed Strategic Environmental Assessment in Brazil, focusing especially on SEA effectiveness and SEA applied to energy and transport sectors.

Naja Marot (PhD, degree in Geography) has 10 years of experience in policy analysis and spatial planning research. At the Department of Landscape Architecture (University of Ljubljana) she teaches Tourism and Recreation, and Regional Planning. Her research focuses on (territorial) governance, policy analysis and impact assessments, regional and urban planning, territorial cohesion, degraded urban areas and post-mining regions, methods for regional planning and public participation. Her international experience includes guest research at the HCU Hamburg University (Germany), University of Michigan (USA), Leibniz Institute of Ecological Urban and Regional Development (Germany) and the University of Seville (Spain).

Marcelo Montaño (BEng; PhD in Environmental Policy Instruments) is Professor at the Sao Carlos School of Engineering/University of Sao Paulo (Brazil) and Honorary Visiting Professor at the University of Liverpool (2014–15). He has 22 years’ experience of teaching and training, research and practice of Impact Assessment (notably EIA and SEA) and Environmental Assessment and Management. He is currently coordinator of the Research Cluster in Environmental Policy of the Sao Carlos. He is also former President of the Brazilian Association for Impact Assessment (2012–14).

Richard Morgan (PhD) was appointed Professor Emeritus on his retirement from the University of Otago in New Zealand in June 2019, where he had taught biogeography, soils, and environmental management, and developed a research specialism in impact assessment. He continues his long-standing interest in impact assessment theory and practice, through research, writing, and training activities. Past publications have addressed most forms of impact assessment, including strategic environmental assessment, as well as issues associated with institutionalization of impact assessment and conceptualizing best practice. A former President of IAIA, Richard is the current chair of the New Zealand Association for Impact Assessment (NZAIA).

Angus Morrison-Saunders (PhD) is Professor in Environmental Management at Edith Cowan University, Australia; Extraordinary Professor in Environmental Sciences and Management at North West University, South Africa; and Fellow of the University of Cambridge Institute for Sustainability Leadership, UK. He specialises in environmental impact assessment and its contribution to sustainable development. His teaching and research revolve around the
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**Stephen Eric Mustow** (PhD, FCIWEM, MCIEEM, CEnv), has 30 years of experience as an environmental consultant and researcher specialising in the water environment and environmental assessment, including SEA, Sustainability Appraisal, EIA, ESIA and Water Framework Directive Assessment. He is a Director of Golder Associates where he heads the Environmental Management team, which undertakes work in the UK and internationally in areas including impact assessment, environmental planning and environmental due diligence. He is also an Honorary Research Fellow at Liverpool University’s Department of Geography and Planning. Steve has written several refereed journal articles, covering topics including water impact assessment, water quality monitoring and aquatic ecology, as well as contributing to numerous other documents, such as SEA and EIA reports.

**Tara Muthoora** (PhD, GradIEMA) is a research associate for the Environmental Assessment and Management Research Centre at the University of Liverpool. Her PhD is in Social and Environmental Impact Assessment following ten years as an Urban Regeneration practitioner for the public and NGO sectors. Recent research projects include Territorial Impact Assessment in the cross boundary area of Ireland and Northern Ireland, Strategic Environmental Assessment/Sustainability Appraisals and the consideration of health in English strategic planning and Health Impact Assessment in English Town Planning.

**Bram F. Noble** (PhD) is Professor in the Department of Geography and Planning at the University of Saskatchewan, Canada. He specializes in environmental assessment with a focus on cumulative effects and strategic assessment. He has served as an expert advisor on environmental assessment to numerous national and international panels and agencies, including the Impact Assessment Agency of Canada and Auditor General Commissioner of Environment and Sustainable Development. He is engaged in the practice of impact assessment and has worked as a consultant on a number of project and regional impact assessments from hydroelectric development to species reintroduction.

**Maria R. Partidário** (PhD on SEA in 1992) has almost 40 years of international experience as an author, trainer and consultant in various fields of environmental planning, assessment and sustainability strategies. She has been a coordinator, process and methodology consultant in SEA in 80+ initiatives in 30+ countries in Europe, Africa, Asia and Latin America. Maria is Associate Professor of the University of Lisbon, Portugal, and is also affiliated with the University of Aalborg, Denmark. Maria is the author of the methodology for strategic thinking for sustainability in SEA, available also as guidance in Portuguese, English and Spanish. Maria is also former President of the International Association for Impact Assessment (IAIA) and has received the IAIA2015 Lifetime Achievement Award for significant contribution to SEA theory, education, and practice, with notable international influence.

**Caroline Purcell** (MSc, BSc, IEMA-Student) is a research assistant for the Environmental Assessment and Management Research Centre, University of Liverpool, UK. She has 16 years of practical experience with environmental assessment (EA) in consultancy, mainly with the offshore energy sector. She is currently completing an MSc, with a focus on assessing the quality of environmental assessment (EA) of the UK’s offshore wind, and the lessons that can be learned from the decommissioning of the oil and gas sector.
Asha Rajvanshi (PhD) has over three decades of professional standing as a teacher, trainer, EIA practitioner and the reviewer of EIAs on behalf of the federal Government of India. She has played the lead role in developing and encouraging mainstreaming tools for integrating biodiversity in impact assessment and SEA in India and the region. She has created several knowledge products and learning platforms to promote EIA and SEA; published in refereed journal articles; and authored books, book chapters and guidance manuals including the SEA guidance manual. Asha has provided professional support in EIA and SEA initiatives led by UNEP, the World Bank, IUCN, IAIA, CBD, GIZ, and ADB. Asha is a recipient of the prestigious Lifetime Achievement Award from IAIA.

Anke Rehhausen (PhD) is an environmental planner at IPU GmbH, Germany, which is a consultancy for environmental and spatial planning. Her work is focused on environmental assessment including strategic environmental assessment, environmental impact assessment, impact mitigation and appropriate assessment. For several years, she worked at the Environmental Assessment and Planning Research Group at the Berlin Institute of Technology (Technische Universität Berlin). She holds a PhD in evaluation of strategic environmental assessment in Germany. Furthermore, she is a Board Member of the German EIA Association and Vice Chairperson of the SEA task force by the German EIA Association.

François P. Retief (PhD, MEnvMan, MTRP) is a professor in environmental management within the Research Unit for Environmental Science and Management at the North West University (NWU), South Africa. He completed his PhD at the University of Manchester and served as the Director for the School for Geo and Spatial Sciences (NWU) as well as co-editor of Impact Assessment and Project Appraisal (IAPA). His main research interest is in the performance of environmental assessment as a policy instrument. He has contributed numerous publications in the field and has been awarded the ‘Outstanding Service to IAIA Award’ as well as the ‘IAIA Individual Award’ for his sustained contribution to the theory and practice of impact assessment at an international level.

Paul Scott (CEcol, CEnv, MCIEEM) has over 20 years’ experience in ecological and environmental assessment including SEA, EIA and Appropriate (Habitats Directive) Assessment research, capacity-building and practical application in the UK and Ireland. A graduate of University of Liverpool and the University of Manchester, Paul was a research associate in the EIA Centre, University of Manchester before practising as a consultant ecologist in Ireland where he developed SEA and AA methodologies and guidance and managed an ecological consultancy for 15 years. He is currently Environmental Planning Manager in the EU and International Planning Regulation Unit in the Department of Housing, Local Government and Heritage in Ireland. He is on the network of European Union Member States EIA/SEA experts, Advisory Forum of the Chartered Institute for Ecology and Environmental Management and has also presented at international workshops on AA and SEA.

Roel Slootweg, co-owner of SevS Consultants in The Netherlands, is an ecologist with a PhD in environmental sciences. He supports governments, NGOs and companies in translating concepts of resilience and sustainability into day-to-day practice. His experience is particularly strong in biodiversity and ecosystem services, and water and wetland management. Scientific evidence, public participation and transparency are constant qualities in his work. Roel is lead author of the CBD Voluntary Guidelines on Biodiversity in Environmental Impact Assessment (EIA) and Strategic Environmental Assessment (SEA), and has published an academic text-
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**Carli Steenkamp** (MEnvMan., BArt et Scien), has 13 years of practical, research and teaching experience in environmental management. She is a lecturer at the Department of Geography and Environmental Management at the North-West University (NWU), South Africa, where she teaches impact assessment. She is currently completing her PhD studies, which focus on evaluating multiple dimensions of Environmental Impact Assessment (EIA) effectiveness. Her main research interest is in the performance of Impact Assessment.

**Kanokporn Swangjang** is Associate Professor in the Department of Environmental Science, Faculty of Sciences, Silpakorn University, Thailand. She started her career as an environmentalist in the Environmental Consultant Company in 1989 and has instructed in the field of Environmental Assessment at Silpakorn University since 1992. Between 1997 and 2000, she carried out her PhD research at the EIA Unit, Aberystwyth University, UK, under the supervision of Prof. Peter Wathern. Her research deals with the integration of environmental assessment in various aspects, such as urban planning, human settlement, carbon sequestration, ecosystem services, health and ecotourism.

**Nicola Sworowski** is a Principal Consultant and a member of the Planning Advisory Service (PAS) that sits within the Local Government Association. PAS supports Councils across England to help them deliver against national policy. Prior to PAS, Nicola worked in local government for around 16 years across three local planning authorities. She most recently managed a Local Authority Planning Policy Team and achieved the successful adoption of a two-part Local Plan, including internal resourcing of the Sustainability Appraisal. She also worked at the Ministry for Housing, Communities and Local Government and on Local Plan interventions and on Judicial Review into Neighbourhood Planning. Finally, Nicola has written ministerial statements on strategic planning.

**Olivier Sykes** (PhD, MCD) is an associate professor in European spatial planning at the University of Liverpool. He has researched, published, and taught extensively across the fields of European spatial planning, international planning studies, and comparative urban policy and regeneration. He is currently the director of research for the planning discipline at Liverpool and has held visiting fellowships and professorships at a number of other institutions. Olivier is the Editor in Chief of *Transactions of the Association of European Schools of Planning* and Policy and Practice Editor of *Town Planning Review*. He has worked on a range of research projects for the EU, national, regional, and local governments, and professional bodies.

**Nick Taylor** has an academic background in applied sociology and environmental sciences, and has broad experience applying social research and impact assessment to projects, programmes, policy and plans in New Zealand and internationally. He was a founding director of Taylor Baines & Associates and is now an independent consultant, working on a number of strategic assessments including land and water plans, and regional economic development strategies. Nick authored the text *Social Impact Assessment: Theory Process and Techniques* and has led numerous courses based on this book. He is a senior adjunct of the University of Lincoln, where he teaches a postgraduate course in EIA and he is a past President of the IAIA.
Riki Thérivel (PhD) is director of Levett-Therivel sustainability consultants and a visiting professor at Oxford Brookes University and University College Dublin. Riki has almost 30 years of experience of carrying out strategic environmental assessment (SEA), writing SEA guidance and books/articles about SEA, and teaching SEA internationally. She is particularly interested in how to improve SEA effectiveness.

Ghislain Mwamba Tshibangu (PhD) is impact assessment officer at the Canadian Impact Assessment Agency. He has more than five years of experience in the analysis of scientific issues as well as in the writing and revision of scientific documents. Ghislain has contributed to several Strategic Environment Assessments in Canada by interpreting laws and regulations and providing recommendations to decision-makers based on impact assessment principles and practices. He has devoted most of his research to SEA in developing countries.

Kedar Uttam is presently a postdoc at KTH Royal Institute of Technology, Stockholm. His key research interests include EIA, SEA, sustainable procurement and knowledge co-production. He holds a PhD from KTH with specialization in environmental management and assessment. His publications cover topics such as EIA and green procurement in the context of the construction sector. Since 2019, he has been involved in research focused on sustainability strategies in urban environments and knowledge co-production. He has over nine years of teaching experience in EIA and SEA courses at KTH. Kedar has worked at grassroots level with communities, environmentalists and NGOs in India, and was a Regional Associate at the Centre for Environment Education, India for the Global Environment Facility UNDP Small Grants Programme.