# ROUTLEDGE STUDIES IN SUSTAINABILITY

# Transdisciplinary Sustainability Studies

A Heuristic Approach

Edited by Katri Huutoniemi and Petri Tapio





Dena Fam, Jane Palmer, Chris Riedy, Cynthia Mitchell

Transdisciplinary Sustainability Studies Katri Huutoniemi,Petri Tapio,2014-06-05 Arising out of human environment interaction sustainability problems resist disciplinary categories and simple solutions This book offers a fresh approach to practical and methodological concerns in transdisciplinary environmental and sustainability studies It illustrates methodological means by which researchers professionals and decision makers can address complex environmental issues While scientific reasoning is mostly guided by disciplinary traditions transdisciplinary research rests on other cognitive strategies As it does not have a ready made stance toward problems figuring out what the puzzle is and what the answer might look like are crucial aspects of transdisciplinary inquiry Through examples from environment and sustainability studies the volume discusses heuristic schemes that can give structure to this exploration By focusing on heuristics rather than on methods concepts or general guidelines the book argues that a problem centered approach often resists the rigor of methodology Learning from experience provides valuable rules of thumb checklists and other cognitive schemes for making ill defined problems more tangible Written by an international team of authors the chapters draw examples from dealing with issues in environmental protection transport and climate policy ecosystem services and disservices environmental beliefs and attitudes and more Together with more theoretically oriented chapters they show that the intellectual processes needed to tackle complex sustainability problems are as much about heuristic problem solving as they are about methodical work

Transdisciplinary Sustainability Studies Katri Huutoniemi,Petri Tapio,2014 Arising out of human environment interaction sustainability problems resist disciplinary categories and simple solutions This book offers a fresh approach to practical and methodological concerns in transdisciplinary environmental and sustainability studies It illustrates methodological means by which researchers professionals and decision makers can address complex environmental issues While scientific reasoning is mostly guided by disciplinary traditions transdisciplinary research rests on other cognitive strategies As it does not have a ready made stance toward problems figuring out what the puzzle is and what the answer might look like are crucial aspects of transdisciplinary inquiry Through examples from environment and sustainability studies the volume discusses heuristic schemes that can give structure to this exploration By focusing on heuristics rather than on methods concepts or general guidelines the book argues that a problem centered approach often resists the rigor of methodology Learning from experience provides valuable rules of thumb checklists and other cognitive schemes for making ill defined problems more tangible Written by an international team of authors the chapters draw examples from dealing with issues in environmental protection transport and climate policy ecosystem services and disservices environmental beliefs and attitudes and more Together with more theoretically oriented chapters they show that the intellectual processes needed to tackle complex sustainability problems are as much about heuristic problem solving as they are about methodical work

Transdisciplinary Perspectives on Transitions to Sustainability Edmond Byrne, Gerard Mullally, Colin

Sage, 2016-06-17 Demonstrating how a university can in a very practical and pragmatic way be re envisioned through a transdisciplinary informed frame this book shows how through an open and collegiate spirit of inquiry the most pressing and multifaceted issue of contemporary societal un sustainability can be addressed and understood in a way that transcends narrow disciplinary work It also provides a practical exemplar of how far more meaningful deliberation understandings and options for action in relation to contemporary sustainability related crises can emerge than could otherwise be achieved Indeed it helps demonstrate how only through a transdisciplinary ethos and approach can real progress be achieved The fact that this can be done in parallel to or perhaps underneath the day to day business of the university serves to highlight how even micro seed initiatives can further the process of breaking down silos and reuniting C P Snow s two cultures after some four centuries of the relentless project of modernity While much has been written and talked about with respect to both sustainability and transdisciplinarity this book offers a pragmatic example which hopefully will signpost the ways others can will and indeed must follow in our common guest for real progress **Transdisciplinary Research and Practice for** Sustainability Outcomes Dena Fam, Jane Palmer, Chris Riedy, Cynthia Mitchell, 2016-11-10 Transdisciplinarity is a form of research and practice that synthesises knowledge from a range of academic disciplines and from the community There is now global interest and a significant body of work on transdisciplinarity and its potential to address the apparently intractable problems of society This creates the opportunity for a specific focus on its practical application to sustainability issues Transdisciplinary Research and Practice for Sustainability Outcomes examines the role of transdisciplinarity in the transformations needed for a sustainable world After an historical overview of transdisciplinarity Part I focuses on tools and frameworks to achieve sustainability outcomes in practice and Part II consolidates work by a number of scholars on supporting transdisciplinary researchers and practitioners Part III is a series of case studies including several international examples that demonstrate the challenges and rewards of transdisciplinary work The concluding chapter proposes a future research pathway for understanding the human factors that underpin successful transdisciplinary research As Emeritus Professor Valerie Brown AO notes in her Preface this book moves transdisciplinary inquiry into the academic and social mainstream It will be of great interest to researchers and practitioners in the fields of sustainability qualitative research methods environmental impact assessment and development studies **Transdisciplinary Research and Sustainability** Martina Padmanabhan, 2017-10-12 Transdisciplinarity is a new way of scientifically meeting the challenges of sustainability Indeed interdisciplinary collaboration and co operation with non academic practice partners is at the core of this creating contextualised socially relevant knowledge about complex real world problems Transdisciplinary Research and Sustainability breaks new ground by presenting transdisciplinary research in practice drawing on recent advances by the vibrant transdisciplinary research communities in the German speaking world It describes methodological innovations developed to address wide ranging contemporary issues including climate change adaptation energy policy sustainable agriculture and

soil conservation Furthermore the authors reflect on the challenges involved in integrating non academic actors in scientific research on the tensions that arise in the encounter of theory and praxis and on the inherently normative political nature of sustainability research Highlighting the need for academic institutions to be transformed to reflect transdisciplinarity this timely volume will appeal to postgraduate students and postdoctoral researchers interested in fields such as Sustainability Science Transdisciplinary Studies and Philosophy of Science Transdisciplinarity For Sustainability Martina M. Keitsch, Walter J.V. Vermeulen, 2020-11-23 This volume explores interactions between academia and different societal stakeholders with a focus on sustainability It examines the significance and potential of transdisciplinary collaboration as a tool for sustainability and the SDGs Traditionally academia has focused on research and education More recently however the challenges of sustainable development and achieving the SDGs have required the co production of knowledge between academic and non academic actors Compromising theory methods and case studies from a broad span of transdisciplinary collaboration Transdisciplinarity For Sustainability Aligning Diverse Practices is written by specialists from various academic disciplines and represents an important step forward in systematising knowledge and understanding of transdisciplinary collaboration They are designed to provide a roadmap for further research in the field and facilitate pursuing and realizing the SDGs The book will appeal to researchers and postgraduate students in a variety of disciplines such as architecture design economics social sciences engineering and sustainability studies It will also be of significant value to professionals who are engaged in transdisciplinary collaboration that supports sustainable development Creativity, Design Thinking and Interdisciplinarity Frédéric Darbellay, Zoe Moody, Todd Lubart, 2017-12-18 This book at the crossroads of creativity design and interdisciplinary studies offers an overview of these major trends in scientific research society culture and economics It brings together different approaches and communities around a common reflection on interdisciplinary creative design thinking This collective effort provides a unique dialogical and convergent space that deals with the challenges and opportunities met by researchers and practitioners working on design thinking creativity and inter and transdisciplinarity or at the interface between these areas Remapping Performance Jan Cohen-Cruz, 2015-07-13 Completing a trilogy of works by Jan Cohen Cruz Remapping Performance focuses on the work of artists and experts who collaborate across fields to address social issues The book explores work of a range of artists who employ artistic training methodologies and mind sets in their work with experts from other sectors such as medicine and healthcare and from other disciplines to draw an expanded map of performance platforms including university community partnerships neighbourhood bases and cultural diplomacy Case studies include ArtSpot Productions Mondo Bizarro s Cry You One about climate change in southern Louisiana incorporating theatrics and organizing Michael Rohd Sojourn Theatre's social and civic practices Anne Basting's University of Wisconsin Milwaukee based integration of performance and creative aging and the collaborative cultural diplomacy experiment smARTpower Short companion pieces add expertise from Helen Nicholson Todd London Julie

Thompson Klein Nancy Cantor Maria Rosario Jackson and Penny Von Eschen Jan Cohen Cruz ends with suggestions for fully integrating performance in cross sector initiatives This latest book by a leading figure in engaged applied theatre and performance builds on its predecessors by offering a future oriented perspective a vision of art and performance interacting with a range of social sectors and with an emphasis on HE in such partnerships and will be a must read for all students and scholars working in this field Climate Change Governance and Adaptation Anamika Barua, Vishal Narain, Sumit Vij, 2018-08-29 Climate change adaptation in South Asia is redefining the roles of different actors in the governance processes The existing governance lack capacity knowledge and leadership skills to manage the uncertainties and challenges posed by climate change This book aims to explain how the governance of climate change adaptation and mitigation is being shaped in the region and how climate change is impacting upon the governance of natural resources Although the focus is on South Asia the editors draw a wide range of contributions from northern and southern communities and across various agro ecological contexts Climate Change Governance and Adaptation Case Studies from South Asia sees the changing climate not only as an environmental problem but as a societal challenge and discusses the governance challenges from an interdisciplinary social science perspective across different levels local state and national Discusses also the challenges and opportunities for increasing the resilience of the society through effective governance around climate change A top down approach to govern climate change adaptation may not yield desired outcomes instead the book emphasizes the need to integrate issues of equity into climate governance and polices The lessons learned from different cases across South Asia help readers have a better and deeper understanding of the relationships between governance and climate change Given the diversity of themes covered this book will appeal not only to researchers and practitioners in the climate change community but also to those with a broader interest in governance processes **Transdisciplinary Theory, Practice and Education** Dena Fam, Linda Neuhauser, Paul Gibbs, 2018-08-27 This exciting new state of the art book reviews explores and advocates ways in which collaborative research endeavours can through a transdisciplinary lens enhance student academic and social experiences Drawing from a wide range of knowledges contexts geographical locations and internationally renowned expertise the book provides a unique look into the world of transdisciplinary thinking collaborative learning and action In doing so the book is action orientated reflective theoretical and intriguing and provides a place for all of these to meet and mingle in the spirit of curiosity and imagination Routledge Handbook of Urban Forestry Francesco Ferrini, Cecil C. Konijnendijk van den Bosch, Alessio Fini, 2017-03-31 More than half the world's population now lives in cities Creating sustainable healthy and aesthetic urban environments is therefore a major policy goal and research agenda This comprehensive handbook provides a global overview of the state of the art and science of urban forestry It describes the multiple roles and benefits of urban green areas in general and the specific role of trees including for issues such as air quality human well being and stormwater management It reviews the various stresses experienced by trees in cities and

tolerance mechanisms as well as cultural techniques for either pre conditioning or alleviating stress after planting It sets out sound planning design species selection establishment and management of urban trees It shows that close interactions with the local urban communities who benefit from trees are key to success By drawing upon international state of art knowledge on arboriculture and urban forestry the book provides a definitive overview of the field and is an essential reference text for students researchers and practitioners 

The SAGE Handbook of Curriculum, Pedagogy and Assessment Dominic Wyse, Louise Hayward, Jessica Pandya, 2015-12-03 The research and debates surrounding curriculum pedagogy and assessment are ever growing and are of constant importance around the globe With two volumes containing chapters from highly respected researchers whose work has been critical to understanding and building expertise in the field The SAGE Handbook of Curriculum Pedagogy and Assessment focuses on examining how curriculum is treated and developed and its impact on pedagogy and assessment worldwide The Handbook is organised into five thematic sections considering The epistemology and methodology of curriculum Curriculum and pedagogy Curriculum subjects Areas of the curriculum Assessment and the curriculum The curriculum and educational policy The SAGE Handbook of Curriculum Pedagogy and Assessment s breadth and rigour will make it essential reading for researchers and postgraduate students around the world

A Practical Guide for Developing Cross-Disciplinary Collaboration Skills David Gosselin, 2023-08-23 Solutions to societal and organizational problems require people from diverse fields of expertise to effectively work in team based collaborative environments To create these environments we need to address a myth in modern culture that people have natural abilities to collaborate and work together Collaboration and teamwork are skills As such these skills need to be learned and practiced Commonly collaboration is learned through trial and error Team members have little or no training in how to effectively and efficiently harness the diversity of strengths among team members and maximize their contributions to the team The purpose of this book is to provide a practical process oriented guide that at its most fundamental level is about building relationships and promoting communication and learning among diverse groups of individuals that results in creative collaborative and inclusive problem solving environments This volume provides explicit approaches and processes that will help team members more effectively and efficiently create new knowledge and solutions for societal and organizational problems through collective action **Responsible Research and Innovation** Robert Gianni, John Pearson, Bernard Reber, 2018-07-27 Responsible Research and Innovation provides a comprehensive and impartial overview of the European Commission s Responsible Research and Innovation RRI framework including discussion of both the meaning and aims of the concept and of its practical application As a governance framework for research and innovation RRI involves four key perspectives ethical economic business legal and governance and political The book is organised into chapters covering these different dimensions The authors provide different viewpoints on these aspects in order to offer guidance from experts in the field while at the same time acknowledging the interpretative openness of the RRI frameworks **Cities and Sustainability** 

Daniel Hoornweg, 2016-08-25 Cities are the most likely actors to design and bring about lasting sustainability An agreement among the world's larger cities is possible and likely a necessary but insufficient condition to achieve sustainable development Cities and Sustainability explores the ways in which cities are both the biggest threat to sustainability and the most powerful tool to get us to sustainable development Employing an innovative methodology to a complex issue the book proposes new metrics and approaches that assume cities as fundamental in the search for sustainability Providing population projections for the world's larger cities and a hierarchy of sustainable cities the author develops two new tools i a cities approach to physical and socio economic boundaries and ii sustainability costs curves These tools are designed to be implemented in a multi stakeholder integrated partnership that truly maximizes the benefits of cities in the quest for sustainability Applying the tools outlined in the book to case studies from Dakar Mumbai Sao Paulo Shanghai and Toronto this volume will be of great relevance to students scholars and practitioners with an interest in urban and city management climate change and environment and sustainability more broadly Sustainable Knowledge R. Frodeman, 2013-12-02 Sustainable Knowledge rethinks the nature of interdisciplinary research and the place of philosophy and the humanities in society and offers a new account of what is at stake in talk about interdisciplinarity Human Rights and Sustainability Gerhard Bos, Marcus Düwell, 2016-02-26 The history of human rights suggests that individuals should be empowered in their natural political political social and economic vulnerabilities States within the international arena hold each other responsible for doing just that and support or interfere where necessary States are to protect these essential human vulnerabilities even when this is not a matter of self interest This function of human rights is recognized in contexts of intervention genocide humanitarian aid and development This book develops the idea of environmental obligations as long term responsibilities in the context of human rights It proposes that human rights require recognition that in the face of unsustainable conduct future human persons are exposed and vulnerable It explores the obstacles for long term responsibilities that human rights law provides at the level of international and national law and challenges the question of whether lifestyle restrictions are enforceable in view of liberties and levels of wellbeing typically seen as protected by human rights The book will be of interest to postgraduates studying Human Rights Sustainability Law and Philosophy **Sustainability and the Art of** Long-Term Thinking Bernd Klauer, Reiner Manstetten, Thomas Petersen, Johannes Schiller, 2016-09-01 Dealing with time is intimately linked to sustainability because sustainability at its core involves long term ethical claims To live up to them decision and policy making has to consider long term development of society economy and nature However dealing with time and such long term development is a notoriously difficult subject both in science and in particular in practical decision and policy making Rooted in philosophical and scientific reasoning this book explores how the concept of time can be incorporated into effective practical action The book describes a system and uses case studies to help sustainability practitioners and researchers consider the long term consequences of our actions in a methodical way The system integrates

scientific and practical knowledge about time and temporal developments to help break down the sometimes overwhelming complexity of sustainability issues Combining theoretical conceptual thinking and practical applications this book will be of great interest to students and researchers of sustainability science environmental sciences sustainable development environmental economics political sciences and practical philosophy The Politics of Sustainability Dieter Birnbacher, May Thorseth, 2015-05-15 Responsibility for future generations is easily postulated in the abstract but it is much more difficult to set it to work in the concrete It requires some changes in individual and institutional attitudes that are in opposition to what has been called the systems variables of industrial society individual freedom consumerism and equality The Politics of Sustainability from Philosophical Perspectives seeks to examine the motivational and institutional obstacles standing in the way of a consistent politics of sustainability and to look for strategies to overcome them It argues that though there have been significant changes in individual and especially collective attitudes to growth intergenerational solidarity and nature preservation it is far from certain whether these will be sufficient to encourage politicians into giving sustainable policies priority over other legitimate concerns Having a philosophical approach as its main focus the volume is at the same time interdisciplinary in combining political psychological ecological and economic analyses This book will be a contribution to the joint effort to meet the theoretical and practical challenges posed by climate change and other impending global perils and will be of interest to students of environmental studies applied ethics and environmental psychology Intervention and Sustainability Yolande Strengers, Cecily Maller, 2014-11-13 In an era of dramatic environmental change social change is desperately needed to curb burgeoning consumption Many calls to action have focused on individual behaviour or technological innovation with relative silence from the social sciences on other modes and methods of intervening in social life This book shows how we can go beyond behaviour change in the pursuit of sustainability Inspired by the practice turn in consumption studies this interdisciplinary book looks through the lens of social practice theory to explore important and timely questions about how to intervene in social life It discusses a range of applied sustainability topics including energy consumption housing provision water demand transport climate change curbside recycling and smart grids seeking to redefine what intervention is how it happens and who or what can intervene to address the growing list of environmental calamities facing contemporary societies These issues are explored through a range of specific case studies from Australia the UK and the US providing theoretical insights that are of international relevance The book will be of interest to researchers and students in the fields of sociology consumption studies environmental studies geography and science and technology studies as well as policy makers and practitioners seeking to intervene in social life for sustainability

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