

ENVIRONMENT, DEVELOPMENT AND POLICY

Transdisciplinary Sustainability Studies

A Practical Approach

Edited by
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Transdisciplinary Sustainability Studies A Heuristic Approach Routledge Studies In Sustainability

Gertrude Hirsch Hardon



Transdisciplinary Sustainability Studies A Heuristic Approach Routledge Studies In Sustainability:

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

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

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

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 policies 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

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 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 **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 Transdisciplinary Research, Sustainability, and Social Transformation Tom Dedeurwaerdere, 2023-12-11 This book addresses the gap in the existing literature on the governance of transdisciplinary research partnerships in transformational sustainability research by exploring the governance of knowledge co production in coupled socio ecological system dynamics Multiple social and ecological crises raise new cross sectoral research questions that call for an evolution in contemporary science in the direction of society wide knowledge co production on sustainability transformations of interdependent social and ecological systems This book proposes a new approach to this based on enabling capacities for collaboration among scientific researchers and societal actors with diverse values perspectives and research interests By drawing upon the thriving literature on the conditions for community and multistakeholder driven collective action the analysis sheds new light on the governance arrangements for organizing so called transdisciplinary research partnerships for sustainability This book identifies robust conditions that lead to effective collaborative research with societal actors and digs deeper into capacity building for partnership research through fostering social learning on sustainability values among research partners and organizing training and knowledge exchange at institutions of higher education The book proposes solutions for addressing collective action challenges in transdisciplinary partnerships in an accessible and broadly interdisciplinary manner to a large audience of sustainability scholars and practitioners It will be of interest to students and researchers in the fields of sustainable development social ecological transitions and science policy while also being a useful resource for engineers QSE managers and policymakers The Open Access version of this book available at <http://www.taylorfrancis.com> has been made available under a Creative Commons Attribution Non Commercial No Derivatives CC BY NC ND 4.0 license **Routledge studies in sustainability**, 19?? Sustainability Networks Janne Hukkinen, 2008-08-18 Introduction Bear tracks to sustainability expertise Miserable quarrel in a social ecological system The commitments of science dissecting the social ecological system Reassembling the social ecological system through analogies Illuminating sustainability with scenarios and

indicators Scenarios and power Sustainability experts meet each other Conclusion hybrid experts epilogue **Complexity and Sustainability** Jennifer Wells, 2013 Introduction Elucidating complexity theories Complexity in the natural sciences Complexity in social theory Towards transdisciplinarity Complexity in philosophy complexification and the limits to knowledge Complexity in ethics Earth in the anthropocene Complexity and climate change American dreams ecological nightmares and new visions Complexity and sustainability wicked problems gordian knots and synergistic solutions Conclusion **Routledge Studies in Sustainability Transitions**, **Personal Sustainability** Oliver Parodi, Kaidi Tamm, 2018-03-14 Transition to sustainability is stuck and academic research has not resulted in significant change so far A large void in sustainability research and the understanding of sustainable development is an important reason for this Personal Sustainability seeks to address this void opening up a whole cosmos of sustainable development that has so far been largely unexplored Mainstream academic economic and political sustainable development concepts and efforts draw on the macro level and tend to address external collective and global processes By contrast the human individual intra and inter personal aspects on the micro level are often left unaddressed The authors of Personal Sustainability invite the reader on a self reflecting journey into this unexplored inner cosmos of sustainable development focusing on subjective mental emotional bodily spiritual and cultural aspects Although these are intrinsically human aspects they have been systematically ignored by academia To establish this new field in sustainability research means to leave the common scientific paths and expand the horizon Together with authors from cultural studies philosophy anthropology psychology sociology psychiatry aesthetics and economics and supported by contributions from practitioners this book portrays different approaches to personal sustainability and reflects on their potentials and pitfalls paving the way to cultures of sustainability This book will be of great interest to researchers and students in the field of sustainability and sustainable development as well as researchers from philosophy anthropology psychology sociology cultural studies ethnology educational research didactics aesthetics economics business and public administration **Critical Realism and the Objective Value of Sustainability** Gabriela-Lucia Sabau, 2024-02-29 Critical Realism and the Objective Value of Sustainability contributes to the growing discussion surrounding the concept of sustainability using a critical realist approach within a transdisciplinary theoretical framework to examine how sustainability objectively occurs in the natural world and in society The book develops an ethical theory of sustainability as an objective value rooted not in humans subjective preferences but in the holistic web of relationships interdependencies and obligations existing among living things on Earth a web believed to have maintained life on Earth over the last 3.7 billion years It proposes three pillars of sustainability ethics contentment for the human existence given to us justice beyond distributive justice and meaningful freedom within ecological and moral limits Using abductive reasoning the book infers that there is an out of this world Sustainer behind the Earth's sustainability acting as a metaphysical source of all being and value It argues that sustainability value accepted as a shared understanding of the

common good must guide individual decisions and socio economic development efforts as a matter of deliberate choice as well as be built on the awareness that there are non negotiable pre established conditions for our planet s sustainability This book will be of interest to students and scholars across fields of inquiry including sustainability sustainable development environmental philosophy and ethics philosophy of science and ecological economics and to whoever may wonder why seasons exists and why humans have creative minds

Global Sustainability, Cultural Perspectives and Challenges for Transdisciplinary Integrated Research Benno Werlen, 2015-05-28 This book offers new perspectives of transdisciplinary research in methodological as well as theoretical respects It provides insights in the two fold bio physical and the socio cultural global embeddedness of local living conditions on the basis of selected empirical studies from Latin America Asia Africa Australia and Europe The theoretical foundations of ecological research and sustainability policies were developed at the end of the nineteenth century They are largely based on investigations of living spaces and the evolution and differentiation of varied life forms This perspective is embedded in the practical and theoretical European problem situations of the past and lacks social and cultural differentiation The transformation of spatial and natural relations as a result of the globalization process is so radical that new theories are needed to solve 21st century ecological problems Moreover in view of the lack of an ontologically sound and promising strategy for transdisciplinary problem solving as well as an acceptable consideration of the power of cultural schemas relating to natural living s interpretations there is a strong need to focus on sustainable social practices habits and routines rather than on predominantly living spaces or eco topes This book elaborates on the transdisciplinary approach by reflecting on the theoretical heritage and a global perspective of sustainability by focusing on the primary role of a social approach in sustainability research and by putting emphasis on cultural dimension of sustainability It postulates that global sustainability is grounded in a global understanding of our everyday activities

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 *Critiquing Sustainability, Changing Philosophy* Jenneth Parker, 2014-03-21 To increasing numbers of people sustainability is the key challenge of the twenty first century In the many fields where it is a goal persistent problems obstruct the efforts of those trying to make a difference The task of this book is to provide an overview of the current state of philosophy in the context of what philosophy is could be or should be in relation to sustainability and the human future on Earth The book is conceived as a contribution to the UN Decade of Education for Sustainable Development helping to link work on philosophy and sustainability Critiquing Sustainability Changing Philosophy focusses on the importance of philosophical work to the formation and effectiveness of global civil society and social movements for sustainability in the context of the Anthropocene age of the Earth It takes a transdisciplinary systems approach that challenges philosophy and concludes by proposing a greatly enhanced role for philosophy in contributing to global public reason for sustainability This book will be of interest to philosophers sustainability practitioners and thinkers policy makers and all those engaged in the global movement for sustainability Unity of Knowledge (in Transdisciplinary Research for Sustainability) - Volume I Gertrude Hirsch Hardon, 2008-12-31 Unity of Knowledge in Transdisciplinary Research for Sustainable Development theme is a component of Encyclopedia of Social Sciences and Humanities in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias Today there is a social need for a comprehensive unity of knowledge that would provide orientation and ensure action in the context of the complex problems of modern civilization Based on an intellectual need for unity of knowledge different concepts of unity of knowledge have emerged in the course of the history of ideas The intellectual need for unity can be directed at the world science action or the individual It can involve the quest for the unity of the world based on a principle that is immanent in it the unity of science as a theoretical methodical or epistemological unity the unity of action as a correlation of scientific pragmatic and moral knowledge or finally unity as the educational task of the individual The concepts associated with unity of knowledge can go in two directions The first assumes that there is a unity existing in the world that can be perceived by man It is thought of as an order of being i e an ontological unity of the plurality of phenomena that consist in their common nature The other direction is based on the assumption that unity is a construction of a subject based on its cognitive principles and structures Thus it is not something that can be discovered as an existing objective order and is instead subjective These two volumes present some aspects of Unity of Knowledge in Transdisciplinary Research for Sustainable Development in three parts The purpose of the first part is to trace back the core ideas in transdisciplinary thinking in the history of western philosophy and science to locate socially the concerns of transdisciplinary research and to give an account of the development of transdisciplinary research The second group of chapters deals with methodological and management problems related to transdisciplinary research with regard to problem identification and structuring of research questions with knowledge integration in problem investigation as well as with evaluation An outline of the institutional measures and

transformations to enable and support transdisciplinary research is given in the third part Institutional strategies build on organizational arrangements and links across academic institutions in education and research on networks between science and society for joint knowledge production in temporally limited settings of research programs or projects but they also set up new institutions such as centers for advanced studies national offices agencies and networks These two volumes are aimed at a wide spectrum of audiences University and College Students Educators Research Personnel and all those concerned with sustainable development

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