

# Informed Cities

Making research work for  
local sustainability

Edited by Marko Joas, Kate Theobald,  
David McGuinness, Cristina Garzillo  
and Stefan Kuhn



# Informed Cities Making Research Work For Local Sustainability

**Sebastian Brünink**



### **Informed Cities Making Research Work For Local Sustainability:**

Informed Cities Marko Joas, Kate Theobald, David McGuinness, Cristina Garzillo, Stefan Kuhn, 2013-10-30 *Informed Cities* looks at the knowledge brokerage processes between cities and higher education institutions and in particular evaluates governance mechanisms for monitoring local sustainability and the role of research within this. The first part of the book provides an analysis of tools for governing sustainable cities and develops a typology of existing tools. It then considers approaches to monitor local sustainability on a European level focusing on a number of key tools such as the Covenant of Mayors Reference Framework for Sustainable Cities and Green Capital Award. The second part of the book introduces an explorative application of two tools that the author team have used in practice to monitor local sustainability: Urban Ecosystems Europe and Local Evaluation 21, presenting and evaluating European level data collected from local governments. The third part of the book looks deeper into a number of case studies discussing how a working and rewarding city university connection can be created and nourished in an administrative and political setting. Finally, the last part of the book reflects on lessons learned from the application of the tools and accompanying research process and makes recommendations for further developing monitoring tools for urban sustainability on a European level. This book will be essential reading for professionals in urban and regional planning who are tasked with monitoring the effects of sustainability policies as well as for graduate students in planning, environmental governance, sustainable development and related disciplines. **Localism**

**and Neighbourhood Planning** Brownill, Sue, Bradley, Quintin, 2017-01-18 As in many other areas of public policy in the United Kingdom, in recent years city planning has increasingly been localized all the way down to the neighborhood level. This book is the first to critically analyze this shift which has proved to be among the most contentious and controversial of all contemporary planning initiatives. Focusing on the newly granted rights of communities to draw up statutory Neighbourhood Development Plans, it moves from there to engage with larger debates about the theory and practice of localism, setting this trend within an international context with cases from the United States, Australia and France as well as the United Kingdom.

**Sustainability · Strategy · Space - exploring influences on governing for urban sustainability in municipalities** Paul Fenton, 2016-06-21 The pursuit of urban sustainability is considered central to sustainable development and is a key objective of the global Sustainable Development Goals 2015 and the New Urban Agenda 2016. This thesis aims to contribute to debates on urban sustainability by providing insights as to the role of actors participating in processes of governing for urban sustainability with particular focus on the municipal organisation. The thesis employs an interdisciplinary approach to illustrate divergent approaches to governing for urban sustainability with reference to empirical studies of strategic planning processes in municipalities in selected North western European countries: Sweden, Switzerland and The Netherlands. These studies address themes including climate change, sustainable transport and multi level governance. The thesis provides a broad overview of theoretical discussions related to governing strategy and planning, the role of actors in governing for urban

sustainability and the particular importance of climate change as a challenge for urban sustainability A number of research gaps are identified and addressed in two research questions focusing on the organisation and practice of processes of governing for urban sustainability and the factors influencing actors participating in such processes The thesis responds to these research questions with reference to five appended papers which illustrate different dimensions of governing for urban sustainability The first paper concerns the organisation of processes to develop energy and climate strategies in Swedish municipalities and the second paper highlights the experiences of actors participating in such processes The third paper presents results from a survey illustrating the expectations of stakeholders active in governing transport in the city of Norrköping Sweden In the fourth paper the development and implementation of policies aiming for sustainable transport and urban sustainability in Basel Switzerland are discussed In the final paper cooperation through transnational municipal networks is explored with reference to the World Ports Climate Declaration an initiative of the city of Rotterdam The thesis confirms the presence of five factors capacity mandate resources scope and will that shape the strategy space of actors and play an important role in conditioning the form and content of processes of governing for urban sustainability The thesis suggests that the ways in which a municipal organisation perceive and mobilise the five factors will strongly determine the extent of its sustainability strategy space In sum municipal organisations and other actors participating in processes of governing for urban sustainability need to mobilise the five factors and expand their strategy space in order to achieve vertical and horizontal alignment of strategic objectives and facilitate implementation that delivers transformative change

*Cities in Transition* Thomas Sauer, Susanne Elsen, Cristina Garzillo, 2016-02-26 *Cities in Transition* focuses on the sustainability transitions initiated in 40 European cities The book presents the incredible wealth of insights gathered through hundreds of interviews and questionnaires Four key domains local energy systems local green spaces local water systems and local labour markets have been the focus of the field research investigating local potentials for social innovation and new forms of civil society self organisation Examining the potential of new organizational frameworks like co-operatives multi stakeholder constructions local regional partnerships and networks for the success of such transitions this book presents the key ingredients of a sustainable urban community as a viable concept to address current global financial environmental and social challenges Crucial reading for academics and practitioners of urban planning and sustainability in Europe *Cities in Transition* is an innovative roadmap for sustainability in changing cities

Sustainability Governance and Hierarchy Philippe Hamman, 2019-06-19 *Sustainability Governance and Hierarchy* provides a solid theoretically and empirically grounded reflection on the concept of sustainability governance This idea has been growing in popularity in social science literature as well as among decision makers and governance actors as it brings together two vast fields of study that have sometimes been dismissed as vague or ideologically loaded In order to link the concepts of sustainability and governance the book is organized around the exploration of hierarchy issues which often lie in the background of the existing literature but

are not the focus of analysis The chapters reflect ongoing controversies and dialogue between scientists with different theoretical and thematic backgrounds who are all willing to participate in and contribute to a constructive effort to reach a more inclusive and more theoretically relevant stage for sustainability studies being content with merely global analyses The book is an innovative contribution to the hierarchy non hierarchy debate regarding governance arrangements in the field of sustainability and sustainability studies This book will be of interest to advanced students and scholars focusing on governance issues sustainability studies environmental studies as well as on the methodological aspects of the social sciences economy geography law philosophy political science sociology urbanism and planning This book is published with the support of the European Union the European Regional Development Fund ERDF and the Upper Rhine Interreg V programme as part of the Upper Rhine Cluster for Sustainability Research project

**Operations Management and Sustainability** Luitzen de Boer,Poul Houman Andersen,2018-09-03 This edited book presents cutting edge international research in operations management sustainability and topical research themes As the sustainability agenda gains greater prominence and momentum throughout society business actors and stakeholders are increasingly concerned with the impact of current business operations There is a growing need for OM research and practice which reflects these concerns Based on demands from industry and society at large universities and schools now develop academic programs which are meant to serve this need yet there is no clear and manifest research program concerning OM and sustainability This book is of use to both researchers orientating themselves in this new and exciting field and educators seeking inspiration to develop new courses

**Globalization** JoAnn Chirico,2013-08-01 This groundbreaking text on globalization provides a comprehensive and enlightening overview of globalization issues and topics Emphasizing the theory and methods that social scientists employ to study globalization the text reveals how macro globalization processes impact individual lives from the spread of scientific discourse to which jobs are more or less likely to be offshored The author presents a clear image of the big globalization picture by skillfully exploring piece by piece a myriad of globalization topics debates theories and empirical data Compelling chapters on theory global civil society democracy cities religion institutions sports education and health care along with three chapters on global challenges help readers develop a broad understanding of key topics and issues Throughout the text the author encourages readers to relate their personal experiences to globalization processes allowing for a more meaningful and relevant learning experience

**Knowledge Brokerage for Sustainable Development** André Martinuzzi,Michal Sedlacko,2017-09-08 The menace of a post truth era challenges conventional policy making and science Instead of fighting an uphill battle against populist solutions those involved in both policy making and science have to find innovative ways to collaborate and make use of the vast amounts of knowledge that are already available Knowledge brokerage in this context is more than a simple question and answer game it is a process of co creating and re framing knowledge In addition Knowledge Brokerage for Sustainable Development has to deal with trade offs and ambiguities as well as world views cultures and the

preferences of stakeholder groups This book is the first in depth exploration of how knowledge brokerage has the potential to help manage the challenges of sustainable development across political and scientific systems It presents a selection of innovative and practical tools to enhance the connectivity of research and policy making on sustainable development issues In doing so this book will be an essential publication in research and policy making It supports networking among the developers and users of knowledge brokerage systems and will make their experience better known to the different communities involved The book presents interviews with leading policymakers and researchers such as former EU Commissioner Franz Fischler Robert Jan Smits Director General of Research and Innovation at the EC Uwe Schneidewind President of the Wuppertal Institute and Leida Rijnhout European Environmental Bureau It also provides insights into eleven EU funded projects dealing with different approaches of Knowledge Brokerage for Sustainable Development

**Future Cities Making** Niki Frantzeskaki, Magnus Moglia, Peter Newton, Deo Prasad, Melissa Pineda Pinto, 2024-12-26 This open access book describes the complex dynamics that coevolve in cities and from cities to inform agendas for urban research and urban policy with a view to future city missions It provides a suite of research informed chapters on urban pathways that are early signals and visions for how future cities can be shaped and transformed as well as chapters from policy industry and intermediary organization actors that relate and respond to these pathways from a mainstreaming and implementation perspective This edited collection intends to trigger and capture an ambitious transformative agenda amongst researchers and practitioners who have as their mission to shape urban futures While there is proliferating literature on cities urbanism and urban governance this book offers a unique selling point implying a research positioning point to the field of sustainability transitions by intersecting research on urban sustainability transitions and missions oriented research The focus on the nexus of game changers pathways and innovations sets the book firmly in the leading edge of urban transitions research The book engages with a breadth of disciplines including sustainability science urban planning urban design mobility energy climate change science urban ecology urban sociology architecture data science sustainability transitions studies policy analysis and policy studies as well as environmental governance As an output it aims to engage with and inspire future research and teaching education in the fields of architecture and urban planning urban design environmental governance sustainability science innovation studies and urban sociology

*Advances in the Leading Paradigms of Urbanism and their Amalgamation* Simon Elias Bibri, 2020-06-20 This book explores the recent advances in the leading paradigms of urbanism namely compact cities eco cities and data driven smart cities and the evolving approach to their amalgamation under the umbrella term of smart sustainable cities It addresses these advances by investigating how and to what extent the strategies of compact cities and eco cities and their merger have been enhanced and strengthened through new planning and development practices and are being supported and leveraged by the applied solutions pertaining to data driven smart cities The ultimate goal is to advance sustainability and harness its synergistic effects on multiple scales This

entails developing and implementing more effective approaches to the balanced integration of the three dimensions of sustainability as well as to producing combined effects of the strategies and solutions of the prevailing approaches to urbanism that are greater than the sum of their separate effects in terms of the tripartite value of sustainability Sustainable urban development is today seen as one of the keys towards unlocking the quest for a sustainable world And the big data revolution is set to erupt in cities throughout the world heralding an era where instrumentation datafication and computation are increasingly pervading the very fabric of cities and the spaces we live in thanks to the IoT Big data and the IoT technologies are seen as powerful forces that have tremendous potential for advancing urban sustainability Indeed they are instigating a massive change in the way sustainable cities can tackle the kind of special conundrums wicked problems and significant challenges they inherently embody as complex systems They offer a multitudinous array of innovative solutions and sophisticated approaches informed by groundbreaking research and data driven science As such they are becoming essential to the functioning of sustainable cities Besides yet knowing to what extent we are making progress towards sustainable cities is problematic adding to the fragmented conflicting picture that arises of change on the ground in the face of the escalating rate and scale of urbanization and in the light of emerging ICT and its novel applications In a nutshell new circumstances require new responses This timely and multifaceted book is intended for a wide readership As such it will appeal to researchers academics urban scientists urbanists planners designers policy makers and futurists as well as all readers interested in sustainable cities and their ongoing and future data driven transformation

**Transitioning Toward Sustainability** National Academies of Sciences, Engineering, and Medicine, Division on Earth and Life Studies, Board on Atmospheric Sciences and Climate, Policy and Global Affairs, Science and Technology for Sustainability Program, Committee on Transition Toward Sustainability After 15 Years: Where Do We Stand in Advancing the Scientific Foundation, 2016-07-25

In 1999 the National Academies of Sciences Engineering and Medicine released a landmark report Our Common Journey A Transition toward Sustainability which attempted to reinvigorate the essential strategic connections between scientific research technological development and societies efforts to achieve environmentally sustainable improvements in human well being 1 The report emphasized the need for place based and systems approaches to sustainability proposed a research strategy for using scientific and technical knowledge to better inform the field and highlighted a number of priorities for actions that could contribute to a sustainable future The past 15 years have brought significant advances in observational and predictive capabilities for a range of natural and social systems as well as development of other tools and approaches useful for sustainability planning In addition other frameworks for environmental decision making such as those that focus on climate adaptation or resilience have become increasingly prominent A careful consideration of how these other approaches might intersect with sustainability is warranted particularly in that they may affect similar resources or rely on similar underlying scientific data and models To further the discussion on these outstanding issues the National Academies of

Sciences Engineering and Medicine convened a workshop on January 14 15 2016 Participants discussed progress in sustainability science during the last 15 years potential opportunities for advancing the research and use of scientific knowledge to support a transition toward sustainability and challenges specifically related to establishing indicators and observations to support sustainability research and practice This report summarizes the presentations and discussions from the workshop *Environmental Risks of Genetically Engineered Fish* United States. Congress. Senate. Committee on Commerce, Science, and Transportation. Subcommittee on Oceans, Atmosphere, Fisheries, and Coast Guard, 2013

*Democratizing data: Environmental data access and its future* Michael C. Kruk, Lauren A. Jackson, Kevin A. Butler, Tiffany C. Vance, Nazila Merati, 2023-02-27 *Did the Millennium Development Goals Work?* Manmohan Agarwal, Hany Besada, Leah McMillan Polonenko, 2017-09-20 With the target date for the Millennium Development Goals MDGs behind us this book asks did they work And what happens next Arguing that to effectively look forward we must first look back the editors of this insightful book gather leading scholars and practitioners from a range of backgrounds and regions to provide an in depth exploration of the MDG project and its impact Contributors use region specific case studies to explore the effectiveness of the MDGs in addressing the root causes of poverty including resource geographies early childhood development and education women s rights and disability rights as well as the impact of the global financial crisis and Arab Spring on MDG attainment Providing a critical assessment that seeks to inform future policy decisions the book will be valuable to those working in the development community as well as to academics and students of international development international relations and development economics **Sustainability Challenges for our Urban Futures** Ana E. Escalante, Hallie Eakin, Constantino Macías García, 2021-01-12 *Water and Energy Systems* M. Dinesh Kumar, Yusuf Kabir, 2025-06-26 This book addresses how water supply systems can be planned designed and managed for sustainability by presenting unique approaches and methodologies in rural drinking water supply schemes It synthesizes the outcomes and findings of research studies undertaken by the Institute for Resource Analysis and Policy IRAP and pilot projects undertaken by RCUES Regional Centre for Urban Environmental Studies of AIILSG Mumbai in collaboration with government of Maharashtra with technical support from other development partners on climate resilient water and energy systems Backed by empirical research this volume aims to build the conceptual foundations of the subject additionally bringing in results of pilot projects that apply some of the models in water conservation clean energy production and environmental management Towards building a climate resilient society it also discusses the feasibility of reducing carbon emissions in rural water supply to make it more energy efficient The book will be useful to students researchers and teachers working on Water Resources Water Supply Renewable Energy systems Management of Climate Induced Disasters Water Energy Climate Policy and Development Studies This will also be an invaluable companion to policy makers general administrators civil society organizations media persons and bilateral agencies like WHO UNICEF UNDP UNEP World Bank and the Gates Foundation **Supporting the “virtuous cycle” in**



**urban ecosystems: How research can inform plans, policies, and projects that impact urban resilience** Michele Romolini, Sophie S. Parker, Gregory Blair Pauly, Eric M. Wood, 2023-08-30      Coordinating Climate Change Adaptation as Risk Management J. B. Ruhl, Hiba Baroud, Robin Kundis Craig, 2022-06-15      The Future of the City Kheir Al-Kodmany, Mir M. Ali, 2013

Drawing on the experience of several cities from different parts of the world this text provides a global perspective on the urbanization phenomenon and tall building development and examines their underlying logic design drivers contextual relationships and pitfalls      **Environmental Health Literacy** Symma Finn, Liam R. O'Fallon, 2018-09-12

This book explores various and distinct aspects of environmental health literacy EHL from the perspective of investigators working in this emerging field and their community partners in research Chapters aim to distinguish EHL from health literacy and environmental health education in order to classify it as a unique field with its own purposes and outcomes Contributions in this book represent the key aspects of communication dissemination and implementation and social scientific research related to environmental health sciences and the range of expertise and interest in EHL Readers will learn about the conceptual framework and underlying philosophical tenets of EHL and its relation to health literacy and communications research Special attention is given to topics like dissemination and implementation of culturally relevant environmental risk messaging and promotion of EHL through visual technologies Authoritative entries by experts also focus on important approaches to advancing EHL through community engaged research and by engaging teachers and students at an early age through developing innovative STEM curriculum The significance of theater is highlighted by describing the use of an interactive theater experience as an approach that enables community residents to express themselves in non verbal ways

## Decoding **Informed Cities Making Research Work For Local Sustainability**: Revealing the Captivating Potential of Verbal Expression

In an era characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Informed Cities Making Research Work For Local Sustainability**," a mesmerizing literary creation penned by a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring impact on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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