

Toward Sustainable Communities Solutions For Citizens And Their Governments Paperback 2012 Fourth Edition Ed Mark Roseland

As the tourist industry becomes increasingly important to communities around the world, the need to develop tourism sustainably has also become a primary concern. This collection of international case-studies addresses this crucial issue by asking what local communities can contribute to sustainable tourism, and what sustainability can offer local communities. Individually these investigations present a wealth of original research and source material. Collectively the book illuminates the term 'community', the meaning of which, it is argued, is vital to understanding how sustainable tourism development can be implemented in practice.

This book contains a series of outstanding contributions on ecodynamics that appeared in limited editions before the emergence of the International Journal of Design & Nature and Ecodynamics, which has now become the primary focus for this area of research. The aim of ecodynamics is to relate ecosystems to evolutionary thermodynamics, which can lead to appropriate solutions for sustainable development. The contributions published in this volume relate to all aspects of ecosystems and sustainable development, ranging from physical sciences to economics and epistemology. The world of ecosystems has been dominated by the towering personality of Ilya Prigogine to whom this volume is dedicated. The first article is an extract from his autobiography written shortly before he died. Prigogine's ideas are directly reflected in many of the contributions in this volume. He helped set up numerous research groups all around the world, including that at Siena University headed by the late Enzo Tiezzi. He also influenced the work of Sven Jorgensen, Bernard Patten, Robert Ulanowicz, Simone Bastianoni, Nadia Marchettini, Ricardo Pulselli, T-S Chon, to name just a few amongst the many authors contributing to this volume. This compilation of influential papers currently unavailable in the open literature will make an important contribution to the field of ecodynamics.

Suburbia has twisted the American dream into a nightmare. The United States now has the most rapes, assaults, murders, and serial killings per capita, by a wide margin, than any other first-world nation. It's a Sprawl World After All is the first book to link America's increase in violence and the corresponding breakdown in society with the post-World War II development of suburban sprawl. Without small towns to bring people together, the unplanned growth of sprawl has left Americans isolated, alienated, and afraid of the strangers that surround them. Suburbia has substituted cars for conversation, malls for main streets, and the artificial community of television for authentic social interaction. This has resulted in dramatically negative impacts on US society, including:

- The transformation of America's community-oriented small-town sensibilities into an isolated society of strangers burdened by isolation, loneliness, and depression
- The emergence of a culture of incivility characterized by extreme individualism and a callous disregard for others
- Levels of violence so rampant as to be proclaimed "epidemic" by the Centers for Disease Control and Prevention (CDC)

Advocating that urgent attention be paid to managing development by emulating the smart growth examples of European cities, the book's final section offers readers tools to rebuild community in their lives as well as in society at large. It offers practical solutions that can improve everyone's quality of life. Provocative and thoughtful, It's a Sprawl World After All also includes a helpful resource listing of organizations committed to making communities more sustainable. Douglas E. Morris is a freelance writer whose 14 years of experience living outside the United States in a number of safe urban areas has given him unique insights into cross-cultural urban comparisons. He has published numerous articles on the topic in the last seven years.

One of the most important challenges facing civilization is how its natural resources will be used and protected. Too often polarization and

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litigation cause results with which no one is truly satisfied. Enemies are made, lines are drawn and both people and the environment are degraded. Resolving Environmental Conflict explains the transformative approach toward facilitation. It shows how to help parties empower themselves to define the issues and decide the settlement on their own terms and on their own time through better understanding of one another's perspectives. The transformative approach allows a conflict's outcome to be decided solely by the participants even though resolution may not take place for some months after facilitation is complete. Inherent in the solution is a shared vision for the community without which sustainability is not possible. Beyond shared vision, this book examines notions of development, sustainability, and community and the synergism of ecology, culture and economic needs that promote a healthy environment enriching the lives of all its inhabitants. "Cities are the world's future. Today, more than half of the global population lives in urban areas, and that number is expected to double by 2050. There is no question that cities are growing; the only debate is over how they will grow. Will we invest in the physical and social infrastructure necessary for livable, equitable, and sustainable cities? In the latest edition of State of the World, the flagship publication of the Worldwatch Institute, experts from around the globe examine the core principles of sustainable urbanism and profile cities that are putting these principles into practice. From Portland, Oregon to Ahmedabad, India, local people are acting to improve their cities, even when national efforts are stalled. Issues examined range from the nitty-gritty of handling waste and developing public transportation to civic participation and navigating dysfunctional government. Throughout, readers discover the most pressing challenges facing communities and the most promising solutions currently being developed. The result is a snapshot of cities today and a vision for global urban sustainability tomorrow."-- Back cover.

This timely Research Handbook offers new ways in which to navigate the diverse terrain of community development research. Chapters unpack the foundations and history of community development research and also look to its future, exploring innovative frameworks for conceptualizing community development. Comprehensive and unequivocally progressive, this is key reading for social and public policy researchers in need of an understanding of the current trends in community development research, as well as practitioners and policymakers working on urban, rural and regional development.

Discusses ways in which the role of the state in promoting agricultural growth and development may be redefined. This report presents the proceedings of the 14th World Bank Agricultural Symposium held in January 1994. The papers explore ways in which the role of the state in promoting agricultural growth and development may be redefined. They also capitalize on important lessons emerging from experiences around the world. The report suggests that changing the role of government from market domination towards the provision of a regulatory framework that facilitates private sector activity is an ongoing process rather than a one-time occurrence. The papers also illustrate the wide variety of issues and the different approaches in the various countries that are redefining the role of government in agricultural development. Environmental activists and academics alike are realizing that a sustainable society must be a just one. Environmental degradation is almost always linked to questions of human equality and quality of life. Throughout the world, those segments of the population that have the least political power and are the most marginalized are selectively victimized by environmental crises. This book argues that social and environmental justice within and between nations should be an integral part of the policies and agreements that promote sustainable development. The book addresses the links between environmental quality and human equality and between sustainability and environmental justice.

"Grassroots Sustainability was inspired by the real-life efforts of a handful of grassroots groups in Marin County, California that successfully

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brought sustainability policy and education to their communities. This guidebook documents their best practices and shares important lessons learned along the way. It is intended to empower individuals and grassroots groups near and far to facilitate meaningful change in their communities without having to reinvent the wheel." -- publisher information.

Toward Sustainable Communities Solutions for Citizens and Their Governments New Society Publishers

Helps citizens and their governments apply the concept of sustainable development in their communities. Original.

This book deals with practical ways to reach a more sustainable state in urban areas through such tools as strategic environmental assessment, sustainability assessment, direction analysis, baseline setting and progress measurement, sustainability targets, and ecological footprint analysis.

The book showcases examples of university engagement in community initiatives and reports on the results from research and from a variety of institutional projects and programmes. As a whole, the book illustrates how actors at the community (microlevel) and other levels (meso and macro) can make valuable and concrete contributions to the implementation of the Sustainable Development Goals (SDGs) and, more specifically, to achieving the objectives defined at the 2030 Agenda for Sustainable Development. It is one of the outcomes of the "Second World Symposium on Sustainability Science", which was jointly organised by the Pontifícia Universidade Católica do Paraná (Brazil), the Research and Transfer Centre "Sustainable Development and Climate Change Management" and the "European School of Sustainability Science and Research" at Hamburg University of Applied Sciences (Germany), in cooperation with the Inter-University Sustainable Development Research Programme (IUSDRP).

A cutting-edge, solutions-oriented analysis of how we can reimagine cities around the world to build sustainable futures. What would it take to make urban places greener, more affordable, more equitable, and healthier for everyone? In recent years, cities have stepped up efforts to address climate and sustainability crises. But progress has not been fast enough or gone deep enough. If communities are to thrive in the future, we need to quickly imagine and implement an entirely new approach to urban development: one that is centered on equity and rethinks social, political, and economic systems as well as urban designs. With attention to this need for structural change, *Reimagining Sustainable Cities* advocates for a community-informed model of racially, economically, and socially just cities and regions. The book aims to rethink urban sustainability for a new era. In *Reimagining Sustainable Cities*, Stephen M. Wheeler and Christina D. Rosan ask big-picture questions of interest to readers worldwide: How do we get to carbon neutrality? How do we adapt to a climate-changed world? How can we create affordable, inclusive, and equitable cities? While many books dwell on the analysis of problems, *Reimagining Sustainable Cities* prioritizes solutions-oriented thinking--surveying historical trends, providing examples of constructive action worldwide, and outlining alternative problem-solving strategies. Wheeler and Rosan use a social ecology lens and draw perspectives from multiple disciplines. Positive, readable, and constructive in tone, *Reimagining Sustainable Cities* identifies actions ranging from urban design to institutional restructuring that can bring about fundamental change and prepare us for the challenges ahead.

This book is a printed edition of the Special Issue "Reinventing Healthy Communities: Implications for Individual and Societal Well-Being" that was published in *Social Sciences*

This work holds the proceedings of the 2nd International Conference on Urban planning and architectural design for sustainable development, which will be held on October 30-31, 2017 in Lecce, Italy. It has become apparent that planners, environmentalists, architects, engineers, policy makers and economists have to work together in order to ensure that planning and development can meet our present

needs without comprising the ability of future generations. Problems related to planning and development, which affect rural and urban areas, are present in all regions of the world. Accelerated urbanization has resulted in deterioration of the environment and loss of quality of life. Urban development can also aggravate problems faced by rural areas such as forests, mountain regions and coastal areas, amongst many others. Taking into consideration the interaction between different regions and developing new methodologies for monitoring, planning and implementation of novel strategies, can offer solutions mitigating environmental pollution and non-sustainable use of available resources. Energy saving and eco-friendly building approaches have become an important part of modern development, which places special emphasis on resource optimization. Planning has a key role to play in ensuring that these solutions as well as new materials and processes are incorporated in the most efficient manner.

Welcome to the proceedings of the Third International Conference on Sustainability in Energy and Buildings, SEB'11, held in Marseilles in France, organised by the Laboratoire des Sciences de l'Information et des Systèmes (LSIS) in Marseille, France in partnership with KES International. SEB'11 formed a welcome opportunity for researchers in subjects related to sustainability, renewable energy technology, and applications in the built environment to mix with other scientists, industrialists and stakeholders in the field. The conference featured presentations on a range of renewable energy and sustainability related topics. In addition the conference explored two innovative themes: the application of intelligent sensing, control, optimisation and modelling techniques to sustainability and the technology of sustainable buildings. These two themes combine synergetically to address issues relating to The Intelligent Building. SEB'11 attracted a significant number of submissions from around the world. These were subjected to a two-stage blind peer-review process. With the objective of producing a high-quality conference, only the best 50 or so of these were selected for presentation at the conference and publication in the proceedings. It is hoped that you will find this volume an interesting, informative and useful resource for your research.

This volume bridges the gap between the global promotion of the Green Economy and the manifestation of this new development strategy at the urban level. Green cities are an imperative solution, not only in meeting global environmental challenges but also in helping to ensure socio-economic prosperity at the local level.

This book addresses the main challenges faced today in implementing the Nearly Zero Energy Buildings (nZEB) concept. The book starts with a chapter that addresses problems related to the energy demand and renewable energy sources available in the built environment, along with the restrictions and opportunities in developing sustainable, efficient and affordable solutions, also gaining aesthetic and architectural acceptance. Advanced solutions to cover the energy needs by using various renewable-based energy mixes are presented in two chapters. These two chapters discuss the problem of conversion efficiency at the level of components and systems, aiming at giving value to the variable renewable energy sources, in producing thermal and electric energy. The concept is discussed further in a chapter on advanced solutions for water re-use and recycling wastes as second raw materials. The need for new strategies and implementation tools, for education and training is addressed in the final chapter as part of the nZEB concept, towards sustainable communities. The sub-chapters of the book were openly presented during the 4th Edition of the Conference for Sustainable Energy, held 6-8 November, 2014 and organized by the R&D Centre Renewable Energy

Systems and Recycling at the Transilvania University of Brasov, Romania. This event was developed under the patronage of the International Federation for the Promotion of Mechanism and Machine Science (IFTOMM), through the Technical Committee Sustainable Energy Systems.

This volume contains the extended versions of selected papers presented at the first Mediterranean Conference "Sharing Knowledge on Sustainable Building" held at the Polytechnic of Bari in December 1999, supported by the National Research Council of Italy. The publication of this book was made possible through the efforts of the contributing Authors. Other people have provided invaluable support for the conference and for the preparation of this volume; in particular, I wish to thank Antonella Lerario for providing support in the final editing of the text and images. 1 As reported in Boonstra and Rovers (2001), people spend a great deal of time inside buildings; therefore, decisions about design, construction, use, maintenance, renovation, demolition, reuse and recycling of buildings have a huge impact on the sustainable development of our society. Technical aspects, however, should be supported by adequate policies, developed with appropriate tools and driven by meaningful challenges. For people involved in sustainable buildings, the conceptual frameworks, studies and experiences collected in this volume, organized into three parts - "Policies", "Tools" and "Challenges" - will help to advance knowledge allowing them to adopt and more efficiently implement such innovations sooner.

In this inter-disciplinary follow-up to *Future as Fairness: Ecological Justice and Global Citizenship* (edited by Haugestad and Wulfhorst, Rodopi 2004) 14 chapters explore a variety of conceptual and practical pathways to the building of sustainable communities. Five chapters provide different perspectives on sustainable and unsustainable agriculture. Other cases explored are wildlife valuations, distributional effects of environmental policy, the emerging American nuclear power renaissance, regulation of care use, job losses with a raising GDP, cooperation between labour and environmentalists, plant biotechnology, participatory decision making, acoustic ecology, decent competition, and fractality as a key to global citizenship and ecological justice. The introduction sketches a framework for constructive evaluation of the interrelationships between environmental sustainability, economic sustainability, communities, and social interactions.

* Comparative research on action to achieve local sustainable development in 11 European countries * The most broad-based and systematic study of Local Agenda 21 ever produced * Invaluable case studies and analysis for the future on achieving local sustainability The book presents detailed comparative research into the implementation in 11 European countries of Local Agenda 21 - the action plan for sustainable development at community level. Overviews of implementation in each country are accompanied by analysis of positive and negative changes, as well as a comparative analysis with high academic and policy relevance. Numerous practical examples are included of best cases and crucial 'barriers. Highly relevant for preparations for the Earth Summit planned for 2002, the volume is directly relevant to political scientists and sociologists working on political change and governance issues.

Daniels provides a collection of in-depth case studies of tested sustainable community programs and offers guidance to students

regarding successful implementation strategies. He and his contributors look at a variety of sustainable community programs that have been successfully implemented in local communities. While most of these programs exist through government funding or regulation, one--"Food Gatherers"--is a purely voluntary, non-profit program without any government funding.

For the past half-century, the planning system has operated on the basis of a growth-dependence paradigm. It has been based on market-led urban development and has sought to provide community benefits from a share of development profits. However, we do not live in a world where growth can be taken for granted and we are more aware than previously of the implications for well-being and sustainability. This timely book provides a fresh analysis of the limitations of the growth-dependence planning paradigm. It considers alternative urban development models, ways of protecting and enhancing existing low value land uses and means of managing community assets within the built environment. In each case it spells out the role that a reformed planning system could play in establishing a new agenda for planning. The book will be of relevance to planning students, planning professionals and planning academics, as well as urban policy specialists more generally.

Each chapter of this report corresponds to one of the substantive policy areas the President's Council on Sustainable Development has considered. The introduction establishes the context and illuminates some of the cross-cutting lessons, findings, and recommendations that inform the council's work. Chapters: climate change; environmental management; metropolitan and rural strategies for sustainable communities; and international leadership. Appendixes: environmental management; examples of sustainable community initiatives; international capital flows; and council member profiles. Further reading.

This book focuses on three successful approaches for using the school as a catalyst for community development and revitalization, particularly in rural areas. The strategies also work well in suburban and urban areas. Successful case studies are also included.

Building Community is a practical guide for local leaders working to build equitable, healthy, and sustainable communities. Featuring a chapter covering each of 12 Guiding Principles common to thriving communities, the book includes rich case studies and leaderships tools. This book focuses on how to maintain environmental sustainability as one of its main principles, and it addresses how smart cities serve to diminish wastes and maintain natural resources by having clean green energy that is operated by new smart technology designs. Living in a smart city is not something of the future anymore, it is here, and it is being implemented all over the world. A smart city uses different types of electronic Internet of things (IoT) sensors to collect data and then use these data to manage assets and resources efficiently. The smart city concept integrates information and communication technology (ICT), and various physical devices connected to the IoT network to optimize the efficiency of city operations and services and achieve sustainable solutions to allow us to grow with proper management of our resources. Smart sustainable structures and infrastructures face the need of urban areas due to the growth of populations while in the same time save our environment. To achieve this, we need to revisit the conventional methods in design and construction and the conventional materials which are used now to optimize the design and provide smart solutions. In the past few years, the consumption of resources has been massive, and the waste produced from that consumption has been inconceivable. This is causing environmental degradation, which produces many environmental challenges, such as global climate change, excessive fossil fuel dependency and the growing demand for energy. As well as, discussing the challenges facing the civil engineering design and construction of smart cities components and presenting concepts and insight from experts and researchers from different civil engineering disciplines., this book explains how to construct buildings and special

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structures and how to manage and monitor energy.

Getting from Here to There? seeks to take the study of sustainable cities into a realm of analysis and critique that has not been seriously investigated in any explicit and systematic manner: the sphere of power and politics. Using detailed case studies of selected urban sustainability programs—some stillborn or short-lived, others celebrated, still others most promising—it focuses on the political agencies shaping them and the structural elements either impeding or facilitating efforts to build sustainable cities. To accomplish this task, the authors utilize three theories or models of urban power—growth coalition, urban regime, and neo-Gramscian hegemonic—to explore the dynamics of power and politics to better understand these cases and to derive important lessons about getting from here to there. These models offer valuable lessons for ongoing or future sustainable city programs, community or business groups, key policy makers, grassroots organizations, mayors, and urban planners involved in or contemplating moving urban sustainability projects forward, as well as students of urban politics and environmental and sustainability researchers.

Sustainability is a watchword of policy-makers and planners around the world, with cities providing the main focus for development. This comprehensive introduction to sustainability shows how cities are adopting sustainable practices, and considers how to achieve a public-governance approach for the urban age.

Toward Sustainable Communities uses six case studies to illustrate innovative strategies in specific policy areas: air pollution control, water pollution control, land use, transportation, urban redevelopment, and regional ecosystem management.

The Sustainable Development Goals (SDGs) provide an ambitious roadmap for human progress. This brochure explains how WIPO's work supports the SDGs by enabling innovation for the economic, social and cultural development of all countries.

Toward Sustainable Communities offers practical suggestions and innovative solutions to a wide range of municipal and community problems in clear, accessible language. Topics include air quality, transportation and traffic management, energy conservation and efficiency, land use and housing, and economic and community development in the context of achieving a sustainable community. Chapters include Tools and Initiatives sections to help readers achieve the goals of the chapter's topic, plus essential contacts and references including e-mail and web addresses. To help keep you current on vital sustainability information, New Society Publishers' web site (www.swifty.com/nsp/) will provide annual updates on the contacts and resources listed in Toward Sustainable Communities.

This volume presents North American best practices and perspectives on developing, managing and monitoring indicators to track development progress towards the Sustainable Development Goals (SDGs) in local communities and cities. In 4 main sections, the book presents and frames the many ways in which community indicator programs are either integrating or retooling to integrate the SDGs into their existing frameworks, or how they are developing new programs to track and report progress on the SDGs. This is the first volume that focuses on SDG adoption within the context of North American cities and communities, and the unique issues and opportunities prevalent in these settings. The chapters are developed by experienced academics and practitioners of community planning and sustainable development, and will add broad perspective on public policy, organizational management, information management and data visualization. This volume presents a case-study approach to chapters, offering lessons that can be used by three main audiences: 1) teachers and researchers in areas of urban, regional, and environmental planning, urban development, and public policy; 2) professional planners, decision-makers, and urban managers; and 3) sustainability activists and interested groups.

Whole system approaches to sustainable design can help achieve 80 percent (Factor 5) or greater resource productivity in new designs. The

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greater productivity arises from investing in the design stage, where 60-90 percent of a product's or process' lifecycle economic and ecological costs are committed. Newly-designed engineered systems often have long design lives, hence it is critical that all designers ensure that new systems are as sustainable as possible. This book provides introductory, technical design material to demonstrate how advances in energy, materials and water productivity can be achieved through applying a whole system approach to sustainable design. Chapters 1-5 outline how the approach can be implemented and show how the approach can enhance a traditional approach. Chapters 6-10 demonstrate, through worked examples, the application of the approach to: 1) industrial pumping systems, 2) passenger vehicles, 3) electronics and computer systems, 4) temperature control of buildings, and 5) domestic water systems. Published with The Natural Edge Project and the World Federation of Engineering Organizations

Decades of research and discussion have shown that the human population growth and our increased consumption of natural resources cannot continue – there are limits to growth. This volume demonstrates how we might modify and revise our economic systems using nature as a model. The book describes how nature uses three growth forms: biomass, information, and networks, resulting in improved overall ecosystem functioning and co-development. As biomass growth is limited by available resources, nature uses the two other growth forms to achieve higher resource use efficiency. Through a universal application of the three 'R's: reduce, reuse, and recycle, nature thus shows us a way forward towards better solutions. However, our current approach, dominated by short-term economic thinking, inhibits full utilization of the three 'R's and other successful approaches from nature. Building on ecological principles, the authors present a global model and futures scenario analyses which show that implementation of the proposed changes will lead to a win-win situation. In other words, we can learn from nature how to develop a society that can flourish within the limits to growth with better conditions for prosperity and well-being. Urban shrinkage is rising to the top of the political agenda in Europe as more cities are shrinking in the prolonged economic downturn we encounter. Coupled with unprecedented budgetary austerity and rapidly ageing populations, 'stagnating' and 'shrinking' cities have emerged as a key challenge for policy and practice for decades to come. Local actors need to find new ways of collaborating across sectors, agencies and disciplines to unlock opportunities for interventions that mitigate the worst effects of urban shrinkage and long-term decline. Future Directions for the European Shrinking City focuses on policy and planning interventions that can be taken by municipalities and their local stakeholders to tackle stagnation and decline. With case studies from a range of European countries this book proposes ways to tackle shrinkage through governance, policy, planning, social, economic and management interventions. Edited by William J.V. Neill and Hans Schlappa, this book is ideally suited for policy makers and practitioners in urban planning, regeneration, and economic development dealing with pressing spatial and socio-economic issues on a European scale.

As advancements in technology continue to influence all facets of society, its aspects have been utilized in order to find solutions to emerging ecological issues. Creating a Sustainable Ecology Using Technology-Driven Solutions highlights matters that relate to technology driven solutions towards the combination of social ecology and sustainable development. This publication addresses the issues of development in advancing and transitioning economies through creating new ideas and solutions; making it useful for researchers, practitioners, and policy makers in the socioeconomic sectors.

Over the past thirty years local communities have remained at the heart of efforts to address sustainable development across the European Union, mobilised by a wide range of policies and initiatives to develop sustainable, smart, low carbon, resilient and eco-cities. As interventions that promise to simultaneously address multiple goals and to provide a wide range of environmental, economic and social benefits, Nature-

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based Solutions (NBS) offer significant promise as responses to sustainability challenges that resonate at a local level whilst also addressing global issues. They are also seen to have the potential to offer a transformative approach for meeting sustainability challenges, through delivering processes such that sustainable communities are designed, strategies formulated and initiatives implemented which are inclusive and where their outcomes are transformative not only in environmental terms but also account for issues of social justice. This report examines how far Naturebased Solutions can contribute to transformative action for sustainable communities. It examines how such initiatives enable participation and inclusion in the design and implementation of sustainability at the local level and the extent to which the outcomes of NBSs are transformative for communities. The report then turns to consider the challenges and opportunities encountered, before identifying gaps and recommendations for future research and policy.

This open access book presents up-to-date analyses of community-based approaches to sustainable resource management of SEPLS (socio-ecological production landscapes and seascapes) in areas where a harmonious relationship between the natural environment and the people who inhabit it is essential to ensure community and environmental well-being as well as to build resilience in the ecosystems that support this well-being. Understanding SEPLS and the forces of change that can weaken their resilience requires the integration of knowledge across a wide range of academic disciplines as well as from indigenous knowledge and experience. Moreover, given the wide variation in the socio-ecological makeup of SEPLS around the globe, as well as in their political and economic contexts, individual communities will be at the forefront of developing the measures appropriate for their unique circumstances. This in turn requires robust communication systems and broad participatory approaches. Sustainability science (SuS) research is highly integrated, participatory and solutions driven, and as such is well suited to the study of SEPLS. Through case studies, literature reviews and SuS analyses, the book explores various approaches to stakeholder participation, policy development and appropriate action for the future of SEPLS. It provides communities, researchers and decision-makers at various levels with new tools and strategies for exploring scenarios and creating future visions for sustainable societies.

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