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Current economic growth strategies are rapidly depleting natural resources and eco-systems. Just Transitions provides a comprehensive overview of these global challenges from a global South perspective. How do developing countries eradicate poverty via economic development while encountering the consequences of global warming and dwindling supplies of clean water, productive soils, cheap oil, minerals and other resources? This book considers a just transition which reconciles the sustainable use of natural resources with a pervasive commitment to sufficiency (where over-consumers are satisfied with less so that under-consumers can secure enough). Case studies drawn from Africa detail the challenges, but they are set in the context of global trends. The authors conclude with their experience of building a community that aspires to live sustainably.

Cities have experienced an unprecedented rate of growth in the last decade. More than half the world's population lives in urban areas, with the U.S. percentage at 80 percent. Cities have captured more than 80 percent of the globe's economic activity and offered social mobility and economic prosperity to millions by clustering creative, innovative, and educated individuals and organizations. Clustering populations, however, can compound both positive and negative conditions, with many modern urban areas experiencing growing inequality, debility, and environmental degradation. The spread and continued growth of urban areas presents a number of concerns for a sustainable future, particularly if cities cannot adequately address the rise of poverty, hunger, resource consumption, and biodiversity loss in their borders. Intended as a comparative illustration of the types of urban sustainability pathways and subsequent lessons learned existing in urban areas, this

study examines specific examples that cut across geographies and scales and that feature a range of urban sustainability challenges and opportunities for collaborative learning across metropolitan regions. It focuses on nine cities across the United States and Canada (Los Angeles, CA, New York City, NY, Philadelphia, PA, Pittsburgh, PA, Grand Rapids, MI, Flint, MI, Cedar Rapids, IA, Chattanooga, TN, and Vancouver, Canada), chosen to represent a variety of metropolitan regions, with consideration given to city size, proximity to coastal and other waterways, susceptibility to hazards, primary industry, and several other factors.

Climate change has demonstrated, perhaps more than any other environmental concerns, the complexities of the human-nature interrelationship and the need for embedding a far greater environmental consciousness into our social values and norms. A drastic reduction in global greenhouse gas emissions requires a transition to low carbon cities. This demands a better understanding of the interactions between social, technical, and spatial processes which constitute cities. The aim of this book is to explore these interactions and urge urban planners and other built environment professionals to revisit some of their traditional concepts, methods, and ways of thinking about what constitutes a 'good' city and according to whose priorities. The book brings together nine contributions ranging from broad overviews to sector-specific analysis, paying particular attention to the role of urban planning. Contributors cover climate change mitigation and adaptation, deal with different scales of analysis ranging from international and European to national and city perspectives, and discuss a range of policy sectors including housing, transport, energy, sea level rise as well as pathways for climate policy implementation. The diversity of the contributions is itself a reflection of the multitude of climate change concerns that preoccupy researchers, policy makers

and practitioners. This book was published as a special issue of European Planning Studies.

The objective of Sustainable Communities Design Handbook is to ensure a better quality of life for everyone, both now and for generations to come. This means creating a better and safer environment internationally through the sustainable use of natural resources, encouraging sustainable development which supports a strong economy, and ensuring a high quality environment that can be enjoyed by all. Sustainable Development Partnerships brings together in one reference today's most cutting edge technologies and methods for creating sustainable communities. With this book, Environmental Engineers, Civil Engineers, Architects, Mechanical Engineers, and Energy Engineers find a common approach to building environmental friendly communities which are energy efficient. The five part treatment starts with a clear and rigorous exposition of sustainable development in practice, followed by self-contained chapters concerning applications. Methods for the sustainable use of natural resources in built communities Clearly explains the most cutting edge sustainable technologies Provides a common approach to building sustainable communities Coverage of sustainable practices from architecture to construction

This volume analyzes sustainability-related innovations in the building sector and discusses how regional contexts articulate transition trajectories toward green building. It presents 'biographies' of drivers and processes of green building innovation in four case studies: Brisbane (AUS), Freiburg (GER), Luxembourg (LU), and Vancouver (CA). Two of them are relatively well known for their initiatives to mitigate climate change - particularly in the building sector, whereas the other two have only recently become more active in promoting green building. The volume places em-

phasis on development paths, learning processes, and innovations. The focus of the case studies is not restricted to purely technological aspects but also integrates regulatory, procedural, institutional, and other processes and routines and their influence on the variations of the building sector. The diversity of the selected case studies offers the reader the opportunity to gain a thorough understanding of how sustainability developments have unfolded in different city regions. Case study-specific catalogues of transition paths provide insights to inform policy debates and planning processes. The catalogues identify crucial innovations (technological, regulatory, etc.) and explain the factors and circumstances that have led to their success and broader acceptance in Freiburg, Vancouver, Luxembourg, and Brisbane. With the help of a number of micro case studies within each of the four city regions, the case studies also offer ground for comparison and identification of differences. The book represents the outcome of the GreenRegio project, which stands for 'Green building in regional strategies for sustainability: multi-actor governance and innovative building technologies in Europe, Australia, and Canada.' GreenRegio was a 3-year CORE-INTER research project funded by the National Research Fund Luxembourg (FNR) and the German Research Foundation (DFG).

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, Re-

imagining 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.

Balanced Perspectives on Different Urban Ecosystems

With Asia's cities undergoing unprecedented growth in the 21st century, lauded the 'urban century' by many, Sustainable Cities in Asia provides a timely examination of the challenges facing cities across the continent including some of the projects, approaches and solutions that are currently being tested. This book uses numerous case studies, analysing topical issues ranging from city cycling in India, to green spaces in China, to the use of community-led energy generation projects in post-Fukushima Japan. Containing contributions from an international team of scholars, it also takes a multi-disciplinary approach and draws on examples from a wide range of countries, including China, India, Japan, Korea, Taiwan, Singapore and the United Arab Emirates. Ultimately, by providing a comprehensive discussion of the broader debates around the shape of sustainable urbanism, it demonstrates that Asia is one of the most active regions in terms of the development of sustainable city strategies. Tackling the contemporary issues of key importance for sustainability, such as property markets, migration and transport, this book will appeal to students and scholars of Urban Geography, Sustainability, Environmental Studies and Asian studies.

With a foreword from Paul King, Chief Executive, UK Green Building Council and Chairman, Zero Carbon Hub As concerns over climate change and resource constraints grow, many cities across the world are trying to achieve a low carbon transition. Although new zero carbon buildings are an important part of the story, in existing cities the transformation of the current building stock and urban infrastructure must inevitably form the main focus for transitioning to a low carbon and sustainable future by 2050. Urban Retrofitting for Sustainability brings together interdisciplinary research contributions from leading international experts to focus on key issues such as systems innovation, financing tools, gover-

nance, energy, and water management. The chapters consider not only the knowledge and technical tools available, but looks forward to how they can be implemented in real cities by 2050.

This book covers the nexus between urban health, sustainability, and peace. 'Urban Health, Sustainability, and Peace' is the first book that attempts to put these three critical areas together. This novelty approaches the subject matter by delving into evaluating what works, what does not work, and what should be done to achieve healthy cities. We believe this book will be beneficial to a wide range of stakeholders, particularly policymakers, planners, and developers, who continuously shape and reshape the structure and environments of our cities and communities. Unfortunately, in most cases, the healthiness of the cities may not be of their immediate concern. Nevertheless, it is the concern of the end-users, citizens, or simply those who live and work in cities and communities worldwide. To safeguard peace in cities, one has to consider sustaining urban health; and that is the main aim of this book. The ongoing pandemic gives us an excellent reason to study cities' health. During such a disruptive time, we detect many flaws in cities and communities around the world. We primarily identify the negative impacts on sustainability and peace in cities. In order to sustain a healthy city, this book evaluates six sustainability dimensions of physical, environmental, economic, social, institutional, and technical. It then utilizes eight primary dimensions of positive peace, evaluating critical areas for future considerations in urbanism. These considerations include making cities smarter, more resilient, and more sustainable. The book's ultimate goal is to highlight how we should progress to maintain and sustain urban health. As a continuation to 'The City in Need,' this book covers the nexus between urban health, sustainability, and peace. Furthermore, by reflecting on the ongoing pandemic crisis, metaphorically labelled as 'The Day the World Stopped,' we delve into some key areas beyond the usual planning and policy guidelines. Lastly, the book intends to highlight what has not been studied before, i.e., the relationship between urban health, sustainability, and peace.

This book examines the sustainability transition theory in the context of urbanization in China, tracing the development of eco and low-carbon cities. It examines how ideas on building eco-cities and low-carbon cities travel from nation to nation, how they are adopted in the Chinese administrative context and what role in-

ter-scalar actors play in getting the ideas transferred, translated and operationalized on the ground. Offering an overarching theoretical framework that incorporates all urban sustainability experiments in China, the book conducts a comprehensive analysis of the master plans of these new towns and summarizes the normative transition targets of sustainable urban experiments. It explores how they differ from each other and how they influence transition dynamics in practice. By examining four eco and low-carbon new towns deemed representative of current major approaches to sustainability transition management in China, the book provides a detailed depiction of generic transition management and explains the different transitional trajectories for each type of sustainable urban experiment. It demonstrates how sub-national-level and city-level transitions mediate the national transition. Through a thorough inquiry into inter-scalar dynamics, institutional arrangements and techno-social innovations in sustainable urban experiments, the book links generalized transition rules and specific contexts to present a full view of the challenges, failures and territorial problems of eco and low-carbon new towns. This book makes a novel contribution to the study of Chinese urbanization by revisiting issues and problems of contemporary urban China. The reflection on these urban issues will provide implications to policymakers, professionals and the common reader interested in the future sustainable urbanism in China.

This report incorporates the World Bank's new strategy for an urbanizing world. It recognizes that cities and towns form the front-line in a global campaign to address issues of poverty and development opportunity. Guided by a vision of sustainable cities that are livable, competitive, well-governed and -managed, and bankable, this study argues that the Bank needs to view the city holistically while intervening selectively, facilitate city-led development process as well as support sound national urban policy frameworks; invest widely in urban knowledge generation, dissemination, and capacity building; and work through strengthened public and private partnerships at local, national, and international levels.

Since 2014, and the start of the New-type Urbanization Plan (NUP), we see a turning point in the sustainability agenda of China. One of the main indicators is greening cities and the built environments, which will be covered holistically in this edited book. From the perspective of green infrastructure, in particular, the

book approaches key areas of 'forest city development', 'sponge city program', 'green roofing', 'nature-based solutions', 'urban farming', 'eco-city development', etc. This is the first time that such important areas of research come together under the perspective of green Infrastructure. The results would be beneficial to policymakers, practitioners, and researchers in China and across the globe. The comprehensive set of findings from this book will benefit other countries, as we aim to highlight some of the best practices of the current age. The main aim of the book is to put together an excellent group of scholars and practitioners from the field, focusing on the topic of 'Green Infrastructure in Chinese Cities'. In doing so, we aim to cover some of the key 'best practices' for sustainable urbanism. Divided into four parts, the book covers four key areas of (1) Policy Interventions, (2) Planning Innovation, (3) Design Solutions, and (4) Technical Integration. In doing so, we cover an array of best practices related to green infrastructures of various types and their impacts on cities and communities in China. We expect the book to be a valuable resource for researchers in the areas of sustainability, urbanism, urban planning, urban geography, urban design, geographical sciences, environmental sciences, landscape architecture, and urban ecology. The book covers essential factors such as policy, regulations, and programs (in Part 1), planning paradigms and their impacts on urban development (in Part 2), integrated design solutions that suggest sustainable urbanization progression (in Part 3), and technical knowledge that would be utilized for the future development of green infrastructure practices in China and beyond. Lastly, this edited book aims to provide a collaborative opportunity for experts and researchers of the field, who could contribute to the future pathways of sustainable urbanization of China. Lessons extracted from these contributions could be utilized for other contexts, which will benefit a wider group of stakeholders.

Current societies face unprecedented risks and challenges connected to climate change. Addressing them will require fundamental transformations in the infrastructures that sustain everyday life, such as energy, water, waste and mobility. A transition to a 'low carbon' future implies a large scale reorganisation in the way societies produce and use energy. Cities are critical in this transition because they concentrate social and economic activities that produce climate change related emissions. At the same time, cities are increasingly recognised as sources of opportunities for cli-

mate change mitigation. Whether, how and why low carbon transitions in urban systems take place in response to climate change will therefore be decisive for the success of global mitigation efforts. As a result, climate change increasingly features as a critical issue in the management of urban infrastructure and in urbanisation policies. Cities and Low Carbon Transitions presents a ground-breaking analysis of the role of cities in low carbon socio-technical transitions. Insights from the fields of urban studies and technological transitions are combined to examine how, why and with what implications cities bring about low carbon transitions. The book outlines the key concepts underpinning theories of socio-technical transition and assesses its potential strengths and limits for understanding the social and technological responses to climate change that are emerging in cities. It draws on a diverse range of examples including world cities, ordinary cities and transition towns, from North America, Europe, South Africa and China, to provide evidence that expectations, aspirations and plans to undertake purposive socio-technical transitions are emerging in different urban contexts. This collection adds to existing literature on cities and energy transitions and introduces critical questions about power and social interests, lock-in and development trajectories, social equity and economic development, and socio-technical change in cities. The book addresses academics, policy makers, practitioners and researchers interested in the development of systemic responses in cities to curb climate change.

"This book explores Sustainable Development Goal 11, providing insights into viable pathways and policy designs for a transition towards sustainable, inclusive and resilient cities. The volume discusses existing scientific literature on SDG 11 and provides conceptual frameworks relating to systemic transitions, sectoral transitions and behavioural transitions for overcoming challenges related to governance and implementation. Through detailed case studies from cities and settlements, in Europe, Middle East and Asia, it showcases the dynamic processes involved in urban transformations. Drawing from these comparative analyses, the book provides robust frameworks and tools for better solutions and viable pathways to achieve SDG targets in diverse urban settings. Rich in empirical data, this book will be useful for scholars and researchers of development studies, environment studies, urban studies, urban sociology, political economy, political studies,

public policy and sociology. It will also be useful for policy makers, professionals, NGOs and think tanks working in the area of sustainable development and urban planning"--

This is a unique book that provides rich knowledge on how to understand and actively contribute to urban sustainability transitions. The book combines theoretical frameworks and tools with practical experiences on transition management as a framework that supports urban planning and governance towards sustainability. The book offers the opportunity to become actively engaged in working towards sustainable futures of cities. Readers of this book will be equipped to understand the complexity of urban sustainability transitions and diagnose persistent unsustainability problems in cities. Urban planners and professionals will build competences for designing transition management processes in cities and engaging with multidisciplinary knowledge in solution-seeking processes. The heart of the book marks the variety of very different local case studies across the world - including, amongst others, Rotterdam in the Netherlands, La Botija in Honduras, Sydney in Australia and Cleveland in the US. These rich studies give inspiration and practical insights to young planners on how to create sustainable urban futures in collaboration with other stakeholders. The case studies and critical reflections on applications of transition management in cities offer food for thought and welcome criticism. They also introduce new lenses to understand the bigger picture that co-creation dynamics play in terms of power, (dis-)empowerment, legitimacy and changing actor roles. This will equip the readers with a deep understanding of the dynamics, opportunities and challenges present in urban contexts and urban sustainability transitions.

Discusses cities' vulnerabilities in support of better understanding and managing cities and of transforming the built environment function.

The author examines the two most advanced eco-city projects: the Sino-Singapore Tianjin Eco-City in China, and Masdar City in Abu Dhabi. These are the most notable attempts at building new eco-cities to both face up to the 'crises' of the modern world and to use the city as an engine for transition to a low-carbon economy.

Urbanization is occurring at an unprecedented rate; by 2050 three quarters of the world's people will live in urban environments. The cars we drive, products we consume, houses we live in and tech-

nology we use will all determine how sustainable our cities will be. Bridging the increasing divide between cross-disciplinary academic insights and the latest practical innovations, Resilient Sustainable Cities provides an integrated approach for long term future planning within the context of the city as a whole system. In the next 30 years cities will face their biggest challenges yet, as a result of long term, or 'slow burn' issues: population growth will stretch to the breaking point urban infrastructure and service capacity; resource scarcity, such as peak oil; potable water and food security, will dramatically change what we consume and how; environmental pressures will change how we live and where and; shifting demographic preferences will exacerbate urban pressures. Cities can't keep doing what they've always done and cope - we need to change current urban development to achieve resilient, sustainable cities. Resilient Sustainable Cities provides practical and conceptual insights for practitioners, researchers and students on how to deliver cities which are resilient to 'slow burn' issues and achieve sustainability. The book is organized around three overarching themes: pathways to the future innovation to deliver the future leadership and governance issues The book includes a variety of perspectives conveyed through international case studies and examples of cities that have transformed for a sustainable future, exploring their successes and failures to ensure that readers are left with ideas on how to turn their city into a resilient sustainable city for the future.

The world's population is currently undergoing a significant transition towards urbanisation, with the UN expecting that 70% of people globally will live in cities by 2050. Urbanisation has multiple political, cultural, environmental and economic dimensions that profoundly influence social development and innovation. This fundamental long-term transformation will involve the realignment of urban society's technologies and infrastructures, culture and lifestyles, as well as governance and institutional frameworks. Such structural systemic realignments can be referred to as urban sustainability transitions: fundamental and structural changes in urban systems through which persistent societal challenges are addressed, such as shifts towards urban farming, renewable decentralised energy systems, and social economies. This book provides new insights into how sustainability transitions unfold in different types of cities across the world and explores possible strategies for governing urban transitions, emphasising the co-

evolution of material and institutional transformations in socio-technical and socio-ecological systems. With case studies of mega-cities such as Seoul, Tokyo, New York and Adelaide, medium-sized cities such as Copenhagen, Cape Town and Portland, and nonmetropolitan cities such as Freiburg, Ghent and Brighton, the book provides an opportunity to reflect upon the comparability and transferability of theoretical/conceptual constructs and governance approaches across geographical contexts. Urban Sustainability Transitions is key reading for students and scholars working in Environmental Sciences, Geography, Urban Studies, Urban Policy and Planning.

This volume explores a range of current problems faced by cities in Germany and England and reflects on constructive strategies for enhancing the quality of life for the citizens of twenty-first century urban environments. The chapters of the book are based on papers given at a symposium organised by the Universities of Bristol and Hannover in 1997 to celebrate the 50th anniversary of twinning between the cities of Hannover and Bristol.

Sustainable Energy Transition for Cities brings together empirical and applied research in both urban planning and sustainable energy, offering coherent and innovative best practices for urban energy transition planning. Using a multidisciplinary framework, the book views cities as an integrated system composed of components such as neighborhoods and districts within an overall net-zero energy balance. Intended for academics, practitioners and policymakers interested in sustainable energy transition, the book offers insights and best practices to promote the transition to a low carbon urban society. Includes real-world case studies from around the globe Examines replicable tools such as GIS, BIM and the E-City Platform for developing and implementing energy-efficient urban models Provides learning aids such as figures, maps, conceptual models, operative schemes, literature reviews, guideline tables, extensive bibliography, and links

Postwar capitalist development has involved a transition from polarization toward diffuse urbanization and flexibility. The timing and form of this transition and its effects on spatial structures have varied, as is especially evident in the case of Mediterranean Europe. Focusing upon Greater Athens between 1948 and 1981 - the crucial period of the transition - Lila Leontidou explores the role of social classes in urban development.

Cities are striving to become more resilient, adaptive and sustain-

able; this requires new ways of governing and developing the city. This book features chapters by researchers using regenerative development and transitions theories to envisage how Eco-Cities could be planned, designed and created, and concludes with practical tools and an outline of how this evolution could be facilitated. It examines two major questions: How can we use understandings of Eco-Cities to address the legacy of urban built form and existing practices which often make it difficult to create the systemic changes needed? And what are the elements of complex urban places and spaces that will enable the planning, creation and evolution of thriving cities? The book will appeal to planners, city makers, urban researchers, students and practitioners, including planners, designers, architects and sustainability managers, and all those seeking to envisage the steps along the path to thriving cities of the future.

The aim of this book is to explore the question of how urban sustainability can be achieved despite a lack of knowledge integration between different fields. This book starts from the premise that the battle for sustainability will be won or lost in cities and proposes a critical, up-to-date review of trans-disciplinary knowledge management tools – notably scenario methods for informed decision-making. Drawing from literature and pioneering experience in innovation clusters (university-industry-government) during the last decade, it provides a review of recent eco-city concepts and knowledge management tools for effective decision making in the transition to urban sustainability. Using method outlines, case studies and graphical representations, it is intended to serve as a toolbox for those interested in urban transformation towards sustainability. The challenge of sustainability is unprecedented in the history of humanity. The world population is already predominantly urban and the biosphere is profoundly transformed in ways which we can only partially understand, let alone manage. For example, the International Panel for Climate Change has produced very impressive sets of global climate scenarios, but the consequences for the real-world management remain marginal. This book is intended for city managers concerned with urban transformation towards sustainability, policy-makers, researcher-innovators and technology developers, industry and business professionals, as well as students and the general public. Living sustainably is not just about preserving the wilderness or keeping nature pristine. The transition to a green economy de-

pends on cities. Economic, technological, and cultural forces are moving people out of rural areas and into urban areas. If we are to avert climate catastrophe, we will need our cities to coexist with nature without destroying it. Urbanization holds the key to long-term sustainability, reducing per capita environmental impacts while improving economic prosperity and social inclusion for current and future generations. The Sustainable City provides a broad and engaging overview of the urban systems of the twenty-first century. It approaches urban sustainability from the perspectives of behavioral change, organizational management, and public policy, looking at case studies of existing legislation, programs, and public-private partnerships that strive to align modern urban life and sustainability. The book synthesizes the disparate strands of sustainable city planning in an approachable and applicable guide that highlights how these issues touch our lives on a daily basis, including the transportation we take, the public health systems that protect us, where our energy comes from, and what becomes of our food waste. This second edition of The Sustainable City dives deeper into the financing of sustainable infrastructure and initiatives and puts additional emphasis on the roles that individual citizens and varied stakeholders can play. It also reviews current trends in urban inequality and discusses whether a model of sustainability that embraces a multidimensional approach to development and a multistakeholder approach to decision making can foster social inclusion. It features many more examples and new international case studies spanning the globe. This book considers the impact of global climate change, advocating to promote sustainable development from the perspective of low carbon and climate resilience, by reducing carbon emissions in different aspects of urban and regional development. As the world's largest emitter of carbon dioxide, China is continuously exploring a sustainable path to achieve the momentous goal of 2060 carbon neutrality. In addition, this book reviews and summarizes China's green development and predicts the transformation of China's carbon emission and energy structure before and after the peak of carbon emission in 2030. It examines the role of governance in decarbonization efforts, focusing on decision making processes, policies and regulations, as well as the significance of regions, cities, and communities. This book highlights typical methods of implementing and achieving low carbon development in light of China's practical situation, which helps to resolve some

of the problems that may arise in achieving the carbon neutral goal. Therefore, this book is suitable for the reference of scholars in low-carbon environment science, sustainable urban development, and other related fields. It also provides inspiration for China's medium and long-term sustainable development plans in the future.

This book contributes to current debates regarding purposive transitions to sustainable cities, providing an accessible but critical exploration of sustainability transitions in urban settings. We have now entered the urban century, which is not without its own challenges, as discussed in the preceding book of this series. Urbanization is accompanied by a myriad of complex and overlapping environmental, social and governance challenges – which increasingly call into question conventional, market-based responses and simple top-down government interventions. Faced with these challenges, urban practitioners and scholars alike are interested in promoting purposive transitions to sustainable cities. The chapters in this volume contribute to the growing body of literature on city-scale transformative change, which seeks to address a lack of consideration for spatial and urban governance dimensions in sustainability transitions studies, and expand on the basis established in the preceding book. Drawing on a range of perspectives and written by leading Australian and international urban researchers, the chapters explore contemporary cases from Australia and locate them within the international context. Australia is on the one hand representative of many OECD countries, while on the other possessing a number of unique attributes that may serve to highlight issues and potentials internationally. Australia is a highly urbanized country and because of the federal political structure and the large distances, the five largest state-capital cities have a relatively high degree of autonomy in governance – even dominating the rest of their respective states and rural hinterlands to a certain extent. This context suggests that Australian cases can provide interesting “test-tube” perspectives on processes relevant to urban sustainability transitions worldwide. This volume presents an extensive overview of theories, concepts, approaches and practical examples informed by sustainability transitions thinking, offering a unique resource for all urban practitioners and scholars who want to understand and transition to sustainable urban futures.

Most of the world's population now lives in cities. So if we are to

address the problems of environmental deterioration and peak oil adequately, the city has to be a major focus of attention. *EcoCities* is about re-building cities and towns based on ecological principles for the long term sustainability, cultural vitality and health of the Earth's biosphere. Unique in the literature is the book's insight that the form of the city really matters-and that it is within our ability to change it, and crucial that we do. Further, that the ecocity within its bioregion is comprehensible and do-able, and can produce a healthy and potentially happy future. *EcoCities* describes the place of the city in evolution, nature and history. It pays special attention to the key question of accessibility and transportation, and outlines design principles for the ecocity. The reader is encouraged to plunge in to its economics and politics: the kinds of businesses, planning and leadership required. The book then outlines the tools by which a gradual transition to the ecocity could be accomplished. Throughout, this new edition is generously illustrated with the author's own inspired visions of what such rebuilt cities might actually look like.

Interest in the sustainable city is growing around the world and with it come important questions about governing sustainable urban development. Why are there blockages to achieving the goal of a sustainable city? How is it possible to overcome the practical difficulties that initiatives often face? And how can an increasingly technocratic focus be rebalanced with more of a public perspective? In this wide-ranging text, Simon Joss examines mainstream policy and practice and looks at the approaches that can overcome some of their drawbacks. The author examines the core elements of sustainable planning, and how processes of innovation, governance and policy-making work together to achieve sustainable urban change. He assesses the various challenges faced at both the domestic and international level, and across a range of urban scales. These challenges include how to resolve environmentally problematic ways of city-living at the same time as providing for urban social and economic development, and how to adapt the idea and reality of the sustainable city to different geopolitical contexts. The author recognizes that there is no 'one-size-fits-all' solution and examines the range of methods available. In an era where entirely new eco-cities are being built and established ones being retro-fitted in response to environmental pressures, this text looks at the varying successes of the urban sustainability movement and its relationship to the planners, poli-

cy-makers and citizens who are inseparable from it. Providing an accessible account of the latest developments in research and policy as well as examples from around the world, this is indispensable reading for students, researchers and practitioners alike.

This open access book brings together research findings and experiences from science, policy and practice to highlight and debate the importance of nature-based solutions to climate change adaptation in urban areas. Emphasis is given to the potential of nature-based approaches to create multiple-benefits for society. The expert contributions present recommendations for creating synergies between ongoing policy processes, scientific programmes and practical implementation of climate change and nature conservation measures in global urban areas. Except where otherwise noted, this book is licensed under a Creative Commons Attribution 4.0 International License. To view a copy of this license, visit <http://creativecommons.org/licenses/by/4.0/>

A political scientist and an urban architect explore China's odyssey to become an ecological civilization and transform its massive, unsustainable, urbanization process into one that creates hundreds of eco-cities. The resulting *From Eco-Cities to Sustainable City-Regions* is the first book-length study combining analysis of politics and power, urban design and planning issues derived from the co-authors' interdisciplinary research, and on-site fieldwork from their political science and architectural area specialties. Begun in 1986, little-known policy actions have taken shape in the building of 285 eco-cities-and growing. What are the driving forces of these innovative developments? How is China going about converting its teeming urban areas into replicable and showcase cities? Can these new policy initiatives overcome the damage done to its air, waterways, and land, while significantly reducing public health dangers to its inhabitants? In searching for means for the People's Republic of China to take the next step from eco-cities to sustainable city-regions, the co-authors assess the potential success of China's present course and offer key recommendations for Chinese political leaders, urban planners, and citizen stakeholders to make the transition to a sustainable future for its people and the rest of the world. The primary market for this book will be eco-researchers, Asian studies scholars and teachers, eco- and urban architects, environmental and urban policy professionals, and advanced undergraduates in environmental and sustainability studies or sciences programs. The interdiscipli-

nary reach and critical framework of analysis will appeal to a wide variety of scholars interested in Chinese ecological strides and seeking a critical assessment of its potential.

At the dawn of the third millennium, planet Earth entered a zone of turbulence. The 2008 crisis added economic uncertainty to the threat of global warming and extreme events such as droughts, floods and cyclones, the persisting crisis of poverty and the spectrum of pandemics and terrorism. Against this global landscape in an era of fragility, cities, already sheltering more than half of humankind, appear as Janus-faced realities, the best and worst of places, vulnerable but still full of hope and will to overcome the crisis of societal values and progress in the path of sustainable development. This book addresses the most critical challenges for cities, humanity's collective masterpieces in danger, and analyses breakthrough responses for sustainable development, a globalisation with human face and the transition to inclusive post carbon communities. The ultimate wish is that experts, city planners, decision-makers and citizens in search of sustainable cities could find here some sources of information and inspiration to enhance the immense possibilities of cities and embrace the best possible trajectories of change.

'This book identifies the challenges, and illustrates innovative approaches to retrofitting in cities at all scales, from the house and the neighbourhood to the city level. It illustrates the imperative of 'futures thinking', of good leadership and governance, and is essential reading for all professionals and communities involved in planning, developing and rebuilding the urban fabric, form and systems.' Professor Rachel Cooper OBE, Distinguished Professor: Design Management and Policy, Lancaster University 'Retrofitting Cities for Tomorrow's World brings together leading thinkers to explore the theoretical and practical understanding of the systems innovation required for a global shift to sustainability of the built environment by mid-century.' Professor Steve Rayner, James Martin Professor of Science & Civilization, Co-Director Oxford Programme for the Future of Cities A groundbreaking exploration of the most promising new ideas for creating the sustainable cities of tomorrow The culmination of a four-year collaborative research project undertaken by leading UK universities, in partnership with city authorities, prominent architecture firms, and major international consultants, *Retrofitting Cities for Tomorrow's World* explores the theoretical and practical aspects of the transition to-

wards sustainability in the built environment that will occur in the years ahead. The emphasis throughout is on emerging systems innovations and bold new ways of imagining and re-imagining urban retrofitting, set within the context of 'futures-based' thinking. The concept of urban retrofitting has gained prominence within both the research and policy arenas in recent years. While cities are often viewed as a source of environmental stress and resource depletion they are also hubs of learning and innovation offering enormous potential for scaling up technological responses. But city-level action will require a major shift in thinking and a scaling up of positive responses to climate change and the associated threats of environmental and social degradation. Clearly the time has come for a more coordinated, planned, and strategic approach that will allow cities to transition to a sustainable future. This book summarizes many of the best new ideas currently in play on how to achieve those goals. Reviews the most promising ideas for how to approach planning and coordinating a more sustainable urban future by 2050 through retrofitting existing structures Explores how cities need to govern for urban retrofit and how future urban transitions and pathways can be managed, modeled and navigated Offers inter-disciplinary insights from international contributors from both the academic and professional spheres Develops a rigorous conceptual framework for analyzing existing challenges and fostering innovative ways of addressing those challenges Retrofitting Cities for Tomorrow's World is must-reading for academic researchers, including postgraduates insustainability, urban planning, environmental studies, economics, among other fields. It is also an important source of fresh ideas and inspiration for town planners, developers, policy advisors, and consultants working within the field of sustainability, energy, and the urban environment.

This book argues that there is no way to make progress in build-

ing a sustainable future without extensive participation of non-state actors. The volume explores the contribution of non-state actors to a sustainable transition, starting with citizens and communities of different kinds and ending with cities and city-networks. The authors analyse social, cultural, political and economic drivers and barriers for this transition, from individual behaviour to structural restraints, and investigate interplay between the two. Through a series of wide-ranging case studies from the UK, Australia, Germany, Italy and Denmark, and a number of comparative case studies, the volume provides an empirically and theoretically robust argument that highlights the need to develop, widen and scale up collective action and community-based engagement if the transition to sustainability is to be successful. This book will be of great interest to students and scholars of climate change, sustainability and environmental policy.

This book is a point of departure for cities that would like to reap the many benefits of ecological and economic sustainability. It provides an analytical and operational framework that offers strategic guidance to cities on sustainable and integrated urban development.

Reading this book will lead to new insights compelling to an international audience into how cities address the sustainability challenges they face. They do this by not repeating old patterns but by searching for new and innovative methods and instruments based on shared principles of a transitions approach. The book describes the quest of cities on two continents to accelerate and stimulate such a transition to sustainability. The aim of the book is twofold: to provide insights into how cities are addressing this challenge conceptually and practically, and to learn from a comparison of governance strategies in Europe and Asia. The book is informed by transition thinking as it was developed in the last decade in Europe and as it is increasingly being applied in Asia. The

analytical framework is based on principles of transition management, which draws on insights from complexity science, sociology, and governance theories. Only recently this approach has been adapted to the urban context, and this book is an opportunity to share these experiences with a wider audience. For scholars this work offers a presentation of recent state-of-the-art theoretical developments in transition governance applied to the context of cities. For urban planners, professionals, and practitioners it offers a framework for understanding ongoing developments as well as methods and instruments for dealing with them. The content is potentially appealing to post-graduate and graduate students of environmental management, policy studies, and urban studies programs.

Developing an up-to-date critical framework for analysing urban retrofit, this is the first book to examine urban re-engineering for sustainability in a socio-technical context. Retrofitting Cities examines why retrofit is emerging as an important strategic issue for urban authorities and untangles the mix of economic, competitive, ecological and social drivers that influence any transition towards a more sustainable urban environment. Retrofitting Cities comparatively explores how urban scale retrofitting can be conceptualised as a socio-technical transition; to critically compare and contrast different national styles of response in cities of the north and global south; and, to develop new research and policy agendas on future development of progressive retrofitting. Bringing together a group of researchers from a variety of disciplinary backgrounds that reflect the complexity of the research challenge, Retrofitting cities looks across different infrastructures and types of built environment, dealing with diverse urban contexts and examining formal as well as community responses. This is a uniquely practical book for urban planning and policy professionals as well as for researchers in urban studies and urban design.