

Sustainable Stockholm Exploring Urban Sustainability In Europes Greenest City

This book presents human factors research focused on achieving and assessing sustainability in the built environment and architecture. It reports on advanced engineering methods for architecture and design, and on assessments of the social, environmental, and economic impacts of various designs and projects. The book covers a broad range of practical studies relating to ergonomic design and assessment of public and private places, urban ecological constructions, and urban planning for smart city. Further topics include green area planning, environmentally-responsive architecture, and conservation and adaptation of vernacular architectures in modern design. Based on the AHFE 2020 Virtual Conference on Human Factors in Architecture, Sustainable Urban Planning and Infrastructure, held on July 16–20, 2020, this book offers a wealth of perspectives on sustainability and ergonomics in architecture and urban planning. As such, it represents a timely source of inspiration for designers, architects, urban planners, as well as civil and environmental engineers, and other professionals, including policy-makers, seeking for developing sustainable buildings and infrastructure.

Sustainable development is capturing the attention of planners, politicians and business

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leaders. Within the academic sphere its study is increasingly breaching disciplinary boundaries to become a focus of attention for natural and social scientists alike. But in studying such a key concept, it is vital that there is a clear definition of what it means, how it is applied on the ground, and the influence it exerts upon people's perceptions of change in the physical environment, economic activity and society. Exploring Sustainable Development is a major new text which provides a multifaceted introduction to key areas of study in this field, examining sustainability at the full range of spatial scales from the local to the global. Building on existing theory it demonstrates the unique contributions that thinking geographically about space, place and human-environment relationships can bring to the analysis of sustainable development. This book explores different interpretations of sustainable development in both theory and practice, in developed and developing countries, and in rural and urban areas. It pays particular attention to the local, national and international politics of implementation, the future of climate and energy, the role of business, and different conceptions of agricultural sustainability. This wide-ranging text is ideal for undergraduates and postgraduates in geography, environmental science, development studies, and related social and political sciences.

This book provides the reader with a state-of-the-art view of research on sustainable development. Its emphasis lies on the transformative dimension of this research: sustainable development can only be realized through a far-reaching transformation of

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the situation humankind finds itself in at the beginning of the third millennium. The contributions are written by leading world experts in the conceptualisation and actual practice of sustainable development. The book provides a timely overview of ideas and methods as well as a variety of original learning examples on the most innovative approaches on sustainability science.

"Urban Climate Change Research Network, Center for Climate Systems Research, Earth Institute, Columbia University."

Sustainable Stockholm provides a historical overview of Stockholm's environmental development, and also discusses a number of cross-disciplinary themes presenting the urban sustainability work behind Stockholm's unique position, and importantly the question of how well Stockholm's practices can be exported and transposed to other places and contexts. By using the case of Stockholm as the pivot of discussions, Sustainable Stockholm investigates the core issues of sustainable urban environmental development and planning, in all their entanglements. The book shows how intersecting fields such as urban planning and architecture, traffic planning, land-use regulation, building, waste management, regional development, water management, infrastructure engineering—together and in combination—have contributed to making Stockholm Europe's "greenest" city.

Nowadays, the sustainable built environment planning in most cities has come to a turning point as the growth in traffic and population has become a serious concern and

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put tremendous pressure on both the environment and people in these cities. It is therefore important to find new ways or lifestyles—such as compact city, transit-oriented development (TOD) formulations—that are more flexible, inclusive, and sustainable. Furthermore, for the sustainable built environment and urban growth management, not only should the growth management principles—which include smart growth, sustainable growth, and inclusive growth—be taken into account but innovative/smart planning strategies—such as mixed use design, green transport, and new urbanism—are also utilized in planning sustainable built environments in order to prevent the urban sprawl development that has occurred.

As urban populations continue to increase it is essential to consider ways of reducing their impact in terms of the use of natural resources, waste production and climate change. The increasing number of people in cities requires new strategies to supply the necessary food with limited provision of land and decreasing resources. This will become more challenging unless innovative solutions for growing and distributing food in urban environments are considered. The scale of modern food production has created and exacerbated many vulnerabilities and the feeding of cities is now infinitely more complex. As such, the food system cannot be considered secure, ethical or sustainable. In the last few years, there has been a rapid expansion in initiatives and projects exploring innovative methods and processes for sustainable food production. The majority of these projects are focused on providing alternative models that shift the

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power back from the global food system to communities and farmers improving social cohesion, health and wellbeing. It is therefore not surprising that more people are looking towards urban farming initiatives as a potential solution. These initiatives have demonstrated that urban agriculture has the potential to transform our living environment towards ecologically sustainable and healthy cities. Urban agriculture can also contribute to energy, natural resources, land and water savings, ecological diversity and urban management cost reductions. The impact urban agriculture can have on the shape and form of our cities has never been fully addressed. How cities embed these new approaches and initiatives, as part of new urban developments and a city regeneration strategy is critical. The 2nd International Conference on Urban Agriculture and City Sustainability addressed these challenges and the search for new solutions. The presented papers which form this volume detail research works looking at how urban agriculture can contribute to achieving sustainable cities.

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Routledge

The rapid urbanization that began with industrialization has begun to cause many problems. New approaches are emerging today to minimize these problems and make urban areas more livable. These problems include insufficient social facilities in urban areas for increasing populations due to migration and unbalanced use of green areas, water, and energy resources due to urbanization. Careless consumption and the

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pollution of natural resources will cause people many more problems in the future than they do today in urban development. Many professional disciplines have noticed this unbalanced development in urban areas. Urban areas have larger populations than rural areas today. Urban areas are developed neglectfully. Sustainability is needed as a criterion for urban areas to develop in a more livable and healthy fashion. Sustainable urban development approaches are seen in many fields, ranging from land use to the use of natural resources in urban areas.

This book is intended to help explore the field of smart sustainable cities in its complexity, heterogeneity, and breadth, the many faces of a topical subject of major importance for the future that encompasses so much of modern urban life in an increasingly computerized and urbanized world. Indeed, sustainable urban development is currently at the center of debate in light of several ICT visions becoming achievable and deployable computing paradigms, and shaping the way cities will evolve in the future and thus tackle complex challenges. This book integrates computer science, data science, complexity science, sustainability science, system thinking, and urban planning and design. As such, it contains innovative computer-based and data-analytic research on smart sustainable cities as complex and dynamic systems. It provides applied theoretical contributions fostering a better understanding of such systems and the synergistic relationships between the underlying physical and informational landscapes. It offers contributions pertaining to the ongoing development

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of computer-based and data science technologies for the processing, analysis, management, modeling, and simulation of big and context data and the associated applicability to urban systems that will advance different aspects of sustainability. This book seeks to explicitly bring together the smart city and sustainable city endeavors, and to focus on big data analytics and context-aware computing specifically. In doing so, it amalgamates the design concepts and planning principles of sustainable urban forms with the novel applications of ICT of ubiquitous computing to primarily advance sustainability. Its strength lies in combining big data and context-aware technologies and their novel applications for the sheer purpose of harnessing and leveraging the disruptive and synergetic effects of ICT on forms of city planning that are required for future forms of sustainable development. This is because the effects of such technologies reinforce one another as to their efforts for transforming urban life in a sustainable way by integrating data-centric and context-aware solutions for enhancing urban systems and facilitating coordination among urban domains. This timely and comprehensive book is aimed at a wide audience across science, academia industry, and policymaking. It provides the necessary material to inform relevant research communities of the state-of-the-art research and the latest development in the area of smart sustainable urban development, as well as a valuable reference for planners, designers, strategists, and ICT experts who are working towards the development and implementation of smart sustainable cities based on big data analytics and

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context-aware computing.

Issues in Urban Policy and Planning / 2013 Edition is a ScholarlyEditions™ book that delivers timely, authoritative, and comprehensive information about Transportation Policy. The editors have built Issues in Urban Policy and Planning: 2013 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Transportation Policy in this book to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Issues in Urban Policy and Planning: 2013 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

Growing Compact: Urban Form, Density and Sustainability explores and unravels the phenomena, links and benefits between density, compactness and the sustainability of cities. It looks at the socio-climatic implications of density and takes a more holistic approach to sustainable urbanism by understanding the correlations between the social, economic and environmental dimensions of the city, and the challenges and opportunities with density. The book presents contributions from internationally well-known scholars, thinkers and practitioners whose theoretical and practical works

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address city planning, urban and architectural design for density and sustainability at various levels, including challenges in building resilience against climate change and natural disasters, capacity and integration for growth and adaptability, ageing, community and security, vegetation, food production, compact resource systems and regeneration.

This book addresses sustainability thinking and the bigger picture, by taking into consideration how and from where contemporary schools of thought emerged approximately a quarter-century ago. Evidence from the literature illustrates a number of key concepts and techniques that have been tested and continue to be tested, within various multi-disciplinary fields, on societal functionality. Research into sustainable societies needs to be sound, ethical, and creative. A cross-sectoral, interdisciplinary examination of challenges and strategies is used to interlink sustainability thinking and human-nature relations. With an ever-growing number of people now concentrated within urban areas, providing not only environmental quality and livable space, but also security and resilient urban systems, is becoming increasingly important. This urbanization trend has overlapped with environmental degradation, consumption of natural resources, habitat loss, and overall ecosystem change. Consequently, the goal is for cleaner, safer societies – with higher standards of living – to excel in support of current and future generational communities. The book tackles these challenges by integrating environmental scholarship, economic evaluation, and urban strategies under

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one umbrella of thought. The relational paradigms presented include examples that correlate developed and developing countries, socioeconomics and community development, and governance of knowledge and education. As such, the book argues, furthering of knowhow should be accessible and shared in order to achieve maximum innovation and benefit. Sustainability thinking, after all, is a metric for intrinsic human-nature relations in terms of past performance, present development, and future goals. This book discusses this metric and offers novel approaches to growing societies and what we can do next.

Despite its tiny size and seeming marginality to world affairs, the Central American republic of Costa Rica has long been considered an important site for experimentation in cutting-edge environmental policy. From protected area management to ecotourism to payment for environmental services (PES) and beyond, for the past half-century the country has successfully positioned itself at the forefront of novel trends in environmental governance and sustainable development. Yet the increasingly urgent dilemma of how to achieve equitable economic development in a world of ecosystem decline and climate change presents new challenges, testing Costa Rica's ability to remain a leader in innovative environmental governance. This book explores these challenges, how Costa Rica is responding to them, and the lessons this holds for current and future trends regarding environmental governance and sustainable development. It provides the first comprehensive assessment of successes and

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challenges as they play out in a variety of sectors, including agricultural development, biodiversity conservation, water management, resource extraction, and climate change policy. By framing Costa Rica as an “ecolaboratory,” the contributors in this volume examine the lessons learned and offer a path for the future of sustainable development research and policy in Central America and beyond.

Sustainable Stockholm provides a historical overview of Stockholms environmental development, and also discusses a number of cross-disciplinary themes presenting the urban sustainability work behind Stockholms unique position, and importantly the question of how well Stockholms practices can be exported and transposed to other places and contexts. By using the case of Stockholm as the pivot of discussions, Sustainable Stockholm investigates the core issues of sustainable urban environmental development and planning, in all their entanglements. The book shows how intersecting fields such as urban planning and architecture, traffic planning, land-use regulation, building, waste management, regional development, water management, infrastructure engineering together and in combination have contributed to making Stockholm Europes "greenest" city.

We are living at the dawn of what has been termed ‘the fourth paradigm of science,’ a scientific revolution that is marked by both the emergence of big data science and analytics, and by the increasing adoption of the underlying technologies in scientific and scholarly research practices. Everything about science development or knowledge

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production is fundamentally changing thanks to the ever-increasing deluge of data. This is the primary fuel of the new age, which powerful computational processes or analytics algorithms are using to generate valuable knowledge for enhanced decision-making, and deep insights pertaining to a wide variety of practical uses and applications. This book addresses the complex interplay of the scientific, technological, and social dimensions of the city, and what it entails in terms of the systemic implications for smart sustainable urbanism. In concrete terms, it explores the interdisciplinary and transdisciplinary field of smart sustainable urbanism and the unprecedented paradigmatic shifts and practical advances it is undergoing in light of big data science and analytics. This new era of science and technology embodies an unprecedentedly transformative and constitutive power—manifested not only in the form of revolutionizing science and transforming knowledge, but also in advancing social practices, producing new discourses, catalyzing major shifts, and fostering societal transitions. Of particular relevance, it is instigating a massive change in the way both smart cities and sustainable cities are studied and understood, and in how they are planned, designed, operated, managed, and governed in the face of urbanization. This relates to what has been dubbed data-driven smart sustainable urbanism, an emerging approach based on a computational understanding of city systems and processes that reduces urban life to logical and algorithmic rules and procedures, while also harnessing urban big data to provide a more holistic and integrated view or synoptic intelligence of the city. This is

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increasingly being directed towards improving, advancing, and maintaining the contribution of both sustainable cities and smart cities to the goals of sustainable development. This timely and multifaceted book is aimed at a broad readership. As such, it will appeal to urban scientists, data scientists, urbanists, planners, engineers, designers, policymakers, philosophers of science, and futurists, as well as all readers interested in an overview of the pivotal role of big data science and analytics in advancing every academic discipline and social practice concerned with data-intensive science and its application, particularly in relation to sustainability.

This book points to three dominant concepts of how to deal with long-term or surprising and also sudden catastrophic changes, with a main focus on resilience. It is dealing with past, current and future change processes in European, Northern American as well as Australian cities and urban regions, and with the challenges they pose to a resilient urban development. Additionally, contributions deal with potential transformations of urban and regional development and related planning and governance approaches. Urbanization is a global phenomenon and the book emphasizes that this is not just a social-technological process. It is also a social-ecological process where cities are places for nature, and where cities also are dependent on, and have impacts on, the biosphere at different scales from local to global. The book is a global assessment and delivers four main conclusions: Urban areas are expanding faster than urban populations. Half the increase in urban land across the world over the next 20 years will

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occur in Asia, with the most extensive change expected to take place in India and China Urban areas modify their local and regional climate through the urban heat island effect and by altering precipitation patterns, which together will have significant impacts on net primary production, ecosystem health, and biodiversity Urban expansion will heavily draw on natural resources, including water, on a global scale, and will often consume prime agricultural land, with knock-on effects on biodiversity and ecosystem services elsewhere Future urban expansion will often occur in areas where the capacity for formal governance is restricted, which will constrain the protection of biodiversity and management of ecosystem services

Low Carbon Cities is a book for practitioners, students and scholars in architecture, urban planning and design. It features essays on ecologically sustainable cities by leading exponents of urban sustainability, case studies of the new directions low carbon cities might take and investigations of how we can mitigate urban heat stress in our cities' microclimates. The book explores the underlying dimensions of how existing cities can be transformed into low carbon urban systems and describes the design of low carbon cities in theory and practice. It considers the connections between low carbon cities and sustainable design, social and individual values, public space, housing affordability, public transport and urban microclimates. Given the rapid urbanisation underway

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globally, and the need for all our cities to operate more sustainably, we need to think about how spatial planning and design can help transform urban systems to create low carbon cities, and this book provides key insights.

This volume is a vital contribution to conversations about urban sustainability, looking beyond the propaganda to explore its consequences for everyday life. The city in the twenty-first century faces major challenges, including social and economic stratification, wasteful consumption of resources, transportation congestion, and environmental degradation. More than half of the world's population lives in cities and major metropolitan areas, and in the next two decades the number of city dwellers is estimated to reach five billion. This puts enormous pressures on transportation systems, housing stock, and infrastructure such as energy, waste, and water, which directly influences the emissions of greenhouse gases. As the long emergency awaits us, urgent questions remain: How will our cities survive? How can we combat and reconcile urban growth with sustainable use of resources for future generations to thrive? Where and how urbanism comes into the picture and what "sustainable" urban forms can do in light of these events are some of the issues Sustainable Urbanism and Beyond explores. With more than sixty essays, including contributions by Andrés Duany, Saskia Sassen, Peter Newman, Douglas Farr, Henry Cisneros, Peter Hall,

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Sharon Zukin, Peter Eisenman, and others, this book is a unique perspective on architecture, urban planning, environmental and urban design, exploring ways for raising quality of life and the standard of living in a new modern era by creating better and more viable places to live.

At the current time, many issues and problems within sustainable urban development are managed within traditional disciplinary and organizational structures. However, problems such as, climate change, resource constraints, poverty and social tensions all exceed current compartmentalization of policy-making, administration and knowledge production. This book provides a better understanding of how researchers and practitioners together can co-produce knowledge to better contribute to solving the complex challenges of reaching sustainable urban futures. It is written for academic and professional audiences working with urban planning and sustainable cities around the world. Co-producing Knowledge is presented, by way of introduction, as a non-linear, collaborative approach to knowledge production which combines interdisciplinary, transdisciplinary, cross sector and policy approaches to societal problem solving. Examples are taken from Cape Town, Gothenburg, Kisumu, Manchester, Melbourne and a selection of cities in Southeast Asia. Each city chapter discusses the drivers and motivations behind knowledge co-production and gives

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concrete examples of activities and approaches that have been used to promote sustainable urban futures. Each chapter is written to promote mutual learning from the approaches that are already in use. Building upon these city cases, the conclusions outline an international practice and research agenda aimed at strengthening the promotion and implementation of the knowledge co-production for sustainability across diverse urban development contexts. This book provides an overview of the diverse driving forces behind co-production, and their specific contexts and constraints in a variety of cosmopolitan urban contexts. Some of these include institutional and cross-sector barriers to co-production, the need for learning across diverse levels and contexts, and strategies for balancing scientific excellence with the needs of societal change. This book offers valuable lessons regarding the concrete implications and potential impact that co-production processes can have for different user groups, such as planners, politicians, researchers, business interests and NGOs in different urban development contexts.

Including papers presented at the 11th International Conference on Urban Regeneration and Sustainability held in Alicante, Spain, this book addresses the multidisciplinary aspects of urban planning; a result of the increasing size of cities, the amount of resources and services required and the complexity of

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modern society. Most of the earth's population live in cities and the process of urbanisation continues generating problems originating from the drift of the population towards them. These problems can be resolved by cities becoming efficient habitats, saving resources in a way that improves the standard of living. The process faces a number of challenges related to reducing pollution, improving main transportation and infrastructure systems and these challenges can contribute to the development of social and economic imbalances and require the development of new solutions. Large cities are probably the most complex mechanisms to manage, nevertheless they represent a productive ground for architects, engineers, city planners, social and political scientists able to conceive new ideas and time them according to technological advances and human requirements. The papers in this book cover such topics as: Appropriate technologies for smart cities; Architectural issues; Case studies - sustainable practices; Cultural quarters and interventions; Disaster and emergency response; Eco-town planning; Environmental management; Landscape planning and design; Planning for resilience; Quality of life; Socio-economic and political considerations; Pedestrians behaviour in different situation of traffic, modelling and safety; Sustainable urban regeneration and public space; City and beach; Sustainability and the built environment; Sustainable energy and the city; The

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community and the city; Transportation; Urban conservation and regeneration; Urban development and management; Urban infrastructure; Urban metabolism; Urban planning and design; Urban safety and security; Urban strategies; Waterfront development.

To assess urban sustainability performance, this book explores several clusters of cities, including megacities, cities of the Global South, European and North American cities, cities of the Middle East and North Africa, cities of Central and South East Asia, a city state of Singapore and a large group of global cities. It applies a multi-criteria approach using a panel of environmental, economic, social and smart indicators to assess progress and policies in global cities including London, New York, Hong Kong, San Francisco, Los Angeles, São Paulo, Rio de Janeiro, Buenos Aires, Paris, Berlin, Stockholm, Moscow, Beijing, Seoul, Singapore, Shanghai, Sydney, Tokyo and many others. Additional attention is given to the issues of climate change, poverty and smart dimensions, with renewable energy and the drivers of urban CO2 emissions playing the central role. This book is abundant with case studies considering strategies, policies and performance of the leading cities, including San Francisco, Stockholm and Seoul in greater depth, exploring how their successes can be used by other cities. The book identifies key linkages between different smart and sustainability

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dimensions as well as investment opportunities in cities with sustainability potential. This book will be of great interest to policy makers, city and regional authorities as well as scholars and students of urban planning and sustainable development aiming to facilitate a sustainability transition in our cities around the world.

Markets, Politics and the Environment answers three groups of question: What is planning?' and as part of this 'What are its key features as a style of social practice and action?' and 'How does planning as a style of social practice relate to social and economic change? How, as part of the justification for planning, might claims of valid technical knowledge be constructed? What is meant by 'rational'? What is the contribution of pragmatism as a supplement or replacement to rationalism? How might rationality and pragmatism be adapted to postmodernism and the requirements of diversity? Finally, how may concepts of planning be reoriented towards sustainable development as a collective duty? How might sustainable development be reworked in relation to planning as a means of managing and stimulating change? Each group of question is discussed in a separate chapter and is associated with different theories, debates and examples of practice. Markets, Politics and the Environment concludes that the full implications of sustainable development and climate change point in the

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direction of a different type of state- a green state whose future functioning can draw on planning theory but at present can only be conceived as a sketchy outline.

This book provides an interdisciplinary view of how to prepare the ecological and socio-economic systems to the reality of climate change. Scientifically sound tools are needed to predict its effects on regional, rather than global, scales, as it is the level at which socio-economic plans are designed and natural ecosystem reacts. The first section of this book describes a series of methods and models to downscale the global predictions of climate change, estimate its effects on biophysical systems and monitor the changes as they occur. To reduce the magnitude of these changes, new ways of economic activity must be implemented. The second section of this book explores different options to reduce greenhouse emissions from activities such as forestry, industry and urban development. However, it is becoming increasingly clear that climate change can be minimized, but not avoided, and therefore the socio-economic systems around the world will have to adapt to the new conditions to reduce the adverse impacts to the minimum. The last section of this book explores some options for adaptation.

How does the city's urban fabric relate to crime and fear, and how is that fabric

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affected by crime and fear? Does the urban environment affect one's decision to commit an offence? Is there a victimisation-related inequality within cities? How do crime and fear interrelate to inequality and segregation in cities of developing countries? What are the challenges to planning cities which are both safe and sustainable? This book searches for answers to these questions in the nature of the city, particularly in the social interactions that take place in urban space distinctively guided by different land uses and people's activities. In other words, the book deals with the urban fabric of crime and fear. The novelty of the book is to place safety and security issues on the urban scale by (1) showing links between urban structure, and crime and fear, (2) illustrating how different disciplines deal with urban vulnerability to (and fear of) crime (3) including concrete examples of issues and challenges found in European and North American cities, and, without being too extensive, also in cities of the Global South.

Spatial development is a discipline aimed at the protection of specific values and rational development by stimulating economic processes. Modern practices challenge developers to minimize the negative impact of urban development on the environment. In order to adhere to this policy, bioeconomical solutions and investments can be utilized. Bioeconomical Solutions and Investments in

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Sustainable City Development is an essential source that explores the development of sustainable city models based on investments in eco-oriented solutions by protecting and making publicly available green areas and by innovative investments with the use of bioeconomical solutions. Featuring research on topics such as bioeconomy vision, environmental education, and rural planning, this book is ideally designed for architects, urban planners, city authorities, experts, officers, business representatives, economists, politicians, academicians, and researchers.

Across the globe, political movements opposing privatisation, enclosures, and other spatial controls are coalescing towards the idea of the 'commons'. As a result, struggles over the commons and common life are now coming to the forefront of both political activism and scholarly enquiry. This book advances academic debates concerning the spatialities of the commons and draws out the diverse materialities, temporalities, and experiences of practices of commoning. Part one, "Materialising the Commons" focuses on the performance of new geographical imaginations in spatial and material practices of commoning. Part two, "Spaces of Commoning", explores the importance of the turn from 'commons' to 'commoning', bringing together chapters focusing on the "doing" of commons, and how spaces, materials, bodies and abstract flows are

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intertwined in these complex and excessive processes. Part three, "An Expanded Commons", explores the broader registers and spaces in which the concept of the commons is at stake and highlights how and where the commons can open new areas of action and research. Part four, "The Capture of the Commons", questions the particular interdependence of 'the commons' and 'enclosure' assumed within commons literature framed by the concept of neoliberalism. Providing a comprehensive introduction to the diverse ways in which ideas of the commons are being conceptualised and enacted both throughout the social sciences and in practical action, this book foregrounds the commons as an arena for political thought and sets an agenda for future research.

The 'Complete Streets' concept and movement in urban planning and policy has been hailed by many as a revolution that aims to challenge the auto-normative paradigm by reversing the broader effects of an urban form shaped by the logic of keeping automobiles moving. By enabling safe access for all users, Complete Streets promise to make cities more walkable and livable and at the same time more sustainable. This book problematizes the Complete Streets concept by suggesting that streets should not be thought of as merely physical spaces, but as symbolic and social spaces. When important social and symbolic narratives are missing from the discourse and practice of Complete Streets, what actually

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results are incomplete streets. The volume questions whether the ways in which complete streets narratives, policies, plans and efforts are envisioned and implemented might be systematically reproducing many of the urban spatial and social inequalities and injustices that have characterized cities for the last century or more. From critiques of a "mobility bias" rooted in the neoliberal foundations of the Complete Streets concept, to concerns about resulting environmental gentrification, the chapters in *Incomplete Streets* variously call for planning processes that give voice to the historically marginalized and, more broadly, that approach streets as dynamic, fluid and public social places. This interdisciplinary book is aimed at students, researchers and professionals in the fields of urban geography, environmental studies, urban planning and policy, transportation planning, and urban sociology.

Provides guidelines for assessing the sustainability of urban systems including theory, methods and case studies.

This book rethinks the city by examining its various forms of collectivity – their atmospheres, modes of exclusion and self-organization, as well as how they are governed – on the basis of a critical discussion of the notion of urban commons. The idea of the commons has received surprisingly little attention in urban theory, although the city may well be conceived as a shared resource. *Urban Commons:*

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Rethinking the City offers an attempt to reconsider what a city might be by studying how the notion of the commons opens up new understandings of urban collectivities, addressing a range of questions about urban diversity, urban governance, urban belonging, urban sexuality, urban subcultures, and urban poverty; but also by discussing in more methodological terms how one might study the urban commons. In these respects, the rethinking of the city undertaken in this book has a critical dimension, as the notion of the commons delivers new insights about how collective urban life is formed and governed. Faced with the growing demand for nature in cities, informal greenspaces are gaining the interest of various stakeholders - residents, associations, public authorities - as well as scientists. This book provides a cross-sectorial overview of the advantages and disadvantages of urban wastelands in meeting this social demand of urban nature, spanning from the social sciences and urban planning to ecology and soil sciences. It shows the potential of urban wastelands with respect to city dwellers' well-being, environmental education, urban biodiversity and urban green networks as well as concerns regarding urban wastelands' in relation to conflicts, and urban marketing. The authors provide a global insight through case studies in nine countries, mainly located in Europe, Asia and America, thus offering a broad perspective.

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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

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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

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transformative change.

This Handbook presents state-of-the-art methodological guidance and discussion of international practice related to the integration of biodiversity and ecosystem services in impact assessment, featuring contributions from leading researchers and practitioners the world over. Its multidisciplinary approach covers contributions across five continents to broaden the scope of the field both thematically and geographically.

Collectively, cities take up a relatively tiny amount of land on the earth, yet emit 72 percent of greenhouse gas emissions. Clearly, cities need to be at the center of any broad effort to reduce climate change. In *Greenovation*, the eminent urban policy scholar Joan Fitzgerald argues that too many cities are only implementing random acts of greenness that will do little to address the climate crisis. She instead calls for "greenovation"--using the city as a test bed for adopting and perfecting green technologies for more energy--efficient buildings, transportation, and infrastructure more broadly. Further, Fitzgerald contends that while many city mayors cite income inequality as a pressing problem, few cities are connecting climate action and social justice--another aspect of greenovation. Focusing on the biggest producers of greenhouse gases in cities, buildings, energy and transportation, Fitzgerald examines how greenovating cities are reducing

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emissions overall and lays out an agenda for fostering and implementing urban innovations that can help reverse the path toward irrevocable climate damage. Drawing on interviews with practitioners in more than 20 North American and European cities, she identifies the strategies and policies they are employing and how support from state, provincial and national governments has supported or thwarted their efforts. A uniquely urban-focused appraisal of the economic, political, and social debates that underpin the drive to "go green," Greenovation helps us understand what is arguably the toughest policy problem of our era: the increasing impact of anthropocentric climate change on modern social life.

This book contains the proceedings of the latest in a series of biennial conferences on the topic of sustainable regional development that began in 2003. Organised by the Wessex Institute of Technology, the conference series provides a common forum for all scientists specialising in the range of subjects included within sustainable development and planning. 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 compromising the ability of future generations. The topics covered by the papers included in the book include City planning; Regional planning; Social and political issues; Sustainability in the built environment; Rural developments; Cultural heritage; Transportation; Ecosystems analysis, protection and remediation; Environmental management; Environmental impact assessment; Indicators of sustainability; Sustainable solutions in

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developing countries; Sustainable tourism; Waste management; Flood risk management; Resources management; and Industrial developments.

In the last few decades, many European and American cities and towns experienced economic, social and spatial structural change. Strategies for urban regeneration include investments in infrastructures for production, consumption and communication, as well as marketing and branding measures, and urban design schemes. Bringing together leading academics from across a range of disciplines, including Douglas Kelbaugh, Ali Madanipour, Saskia Sassen, Gregory Ashworth, Nan Elin, Emily Talen, and many others, *Emergent Urbanism* identifies the specific issues dominating today's urban planning and urban design discourse, arguing that urban planning and design not only results from deliberate planning and design measures, but how these combine with infrastructure planning, and derive from economic, social and spatial processes of structural change. Combining explorations from urban planning, urban theory, human geography, sociology, urban design and architecture, the volume provides a comprehensive and state-of-the-art overview, highlighting the complexities of these interactions in space and place, process and design.

This book is an ideal complement to studies showing the potentially devastating ecological effects of climate change, studies trying to calculate the costs of climate change, and studies trying to identify the most pressing needs in preparing for the new climate.

Given the three pillars of sustainability, besides the environment, the interplay of social and economic dimensions provides valuable insight into how society is molded and the key components that should be considered. In terms of social sustainability, processes and framework objectives promote the wellbeing that is integral to the balance of people, planet,

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and profit. Economic practices consider the system of production, resource allocation, and distribution of goods and services with respect to demand and supply between economic agents. As a result, an economic system is a variant of the social system in which it exists. At present, the forefront of social sustainability research partially encompasses the impact of economic practices on people and society, with notable emphasis centered on the urban environment. Specific interdisciplinary analyses within the scope of sustainability, social development, competitiveness, and motivational management, as well as decision making within the urban landscape, are considered. This book contains nine thoroughly refereed contributions that interconnect detailed research into the two pillars reviewed.

This book explores urban futures in the making, as seen through the lens of urban infrastructure. The book describes how socio-technical arrangements of energy and water provision are being recast in continuing efforts towards realising 'sustainable' transformation of cities. It critically investigates how infrastructure comes to matter by analyzing the shifting capacities and entanglements of diverse actors with these systems, the various means they use to envision, enact and contest changes, and the wide-ranging social and political implications of emerging infrastructure transitions. Drawing on original research into urban infrastructure debates and projects in Stockholm and Paris, the author develops a novel conceptual framework for studying and acknowledging the active, vital role of infrastructure in constituting a material politics of urban transformation. Straddling the latest theoretical insights and empirical investigation of urban planning practice and socio-technical engineering of systems and flows, *Redeploying Urban Infrastructure* forges new, timely reflections and perspectives which will be of interest to the growing multidisciplinary community of scholars

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investigating infrastructure and to academics and practitioners with a concern for understanding the wider politics of urban futures.

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