

Infrastructure Planning For Sustainable Cities

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Infrastructure Planning For Sustainable Cities

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Green Infrastructure for Sustainable Urban Development in Africa Clarye International

Containing the proceedings of the 9th International Conference on Urban Regeneration and Sustainability 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 modern society. Most of earth's population now lives in cities and the process of urbanisation continues generating many problems deriving 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 quality and standard of living. The process, however, faces a number of major challenges, related to reducing pollution, improving main transportation and infrastructure systems. New urban solutions are required to optimise the use of space and energy resources leading to improvements in the environment, i.e. reduction in air, water and soil pollution as well as efficient ways to deal with waste generation. These challenges 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. However, despite such complexity they represent a fertile ground for architects, engineers, city planners, social and political scientists, and other professionals able to conceive new ideas and time them according to technological advances and human requirements. The challenge of planning sustainable cities lies in considering their dynamics, the exchange of energy and matter, and the function and maintenance of ordered structures directly or indirectly, supplied and maintained by natural systems. Topics covered include: Urban Strategies; Planning, Development and Management; Urban Conservation and Regeneration; The Community and the City; Eco-town Planning; Landscape Planning and Design; Environmental Management; Sustainable Energy and the City; Transportation; Quality of Life; Architectural Issues; Cultural Heritage Issues; Intelligent Environment and Emerging Technologies; Planning for Risk; Disaster and Emergency Response; Safety and Security; Waste Management; Infrastructure and Society; Urban Metabolism.

PLANNING SUSTAINABLE CITIES

CRC Press

This book shows for the first time how green infrastructure can work in an African urban context. On one level it provides a major rethinking of the role of infrastructure in urban society since the creation of networked infrastructure in the early twentieth century. On another, it explores the changing paradigms of urban development through the fundamental question of how decisions are made. With a focus on Africa's fast-growing secondary towns, where 70 per cent of the urban population live, the book explains how urban infrastructure provides the key to the relationship between economic development and social equity, through the mediation of natural resources. Adopting this view enables investment to be channelled more effectively to provide the engine for economic growth, while providing equitable services for all residents. At the same time, the mediation of resource flows integrates the metabolism of the city into the wider

ecosystem. This vision leads to a new way of thinking about infrastructure, giving clear definition to the concept of green infrastructure. On the basis of research gathered throughout an extensive career, John Abbott draws in particular from his experience in Ethiopia to demonstrate the ways in which infrastructure needs to respond to the economies, societies and natural environments of twenty-first century urban Africa. [Nature-Based Solutions for More Sustainable Cities](#) Routledge As more factors, perspectives, and metrics are incorporated into the planning and building process, the roles of engineers and designers are increasingly being fused together. Sustainable Infrastructure explores this trend with in-depth look at sustainable engineering practices in an urban design as it involves watershed master-planning, green building, optimizing water reuse, reclaiming urban spaces, green streets initiatives, and sustainable master-planning. This complete guide provides guidance on the role creative thinking and collaborative team-building play in meeting solutions needed to affect a sustainable transformation of the built environment.

[Planning for a sustainable future](#) Springer Science & Business Media

"This book investigates the role of urban, regional and infrastructure planning in achieving sustainable urban and infrastructure development, providing insights into overcoming the consequences of unsustainable development"--Provided by publisher.

Human-Centered Urban Planning and Design in China: Volume II Routledge

This book discusses human factors research directed towards realizing and assessing sustainability in the built environment and architecture. It reports on advanced engineering methods for sustainable infrastructure design, architecture as well as on assessments of the efficient methods and the social, environmental, and economic impact of various designs and projects. The book covers a range of topics, including the use of recycled materials in architecture, ergonomics in buildings and public design, sustainable design for smart cities, design for the aging population, industrial design, human scale in architecture, and many more. Based on the AHFE 2019 International Conference on Human Factors in Architecture, Sustainable Urban Planning and Infrastructure, held on July 24-28, 2019, in Washington D.C., USA, it offers various perspectives on sustainability and ergonomics. As such, it is a valuable reference resource for designers, urban engineers, architects, infrastructure professionals, public infrastructure owners, policy makers, government engineers and planners, as well as operations managers and academics active in urban and infrastructure research.

[Transforming Cities with Transit](#) UN-HABITAT

This book addresses key issues across the field of sustainable urban planning, and provides a unique reference tool for planners, engineers, architects, public administrators, and other experts. The evolution of cities and communities is giving rise to pressing energy and environmental problems that demand concrete solutions. In this context, urban planning is inevitably a complex activity that requires a sound analytical interpretation of ongoing developments, multidisciplinary analysis of the available tools and technologies, appropriate political management, and the ability to monitor progress objectively in order to verify the effectiveness of the policies implemented. This book is exceptional in both the

breadth of its coverage and its focus on the interactions between different elements. Individual sections focus on strategies and tools for green planning, energy efficiency and sustainability in city planning, sustainable mobility, rating systems, and the smart city approach to improving urban-scale sustainability. The authors draw on their extensive practical experience to provide operational content supplementing the theoretical and methodological elements covered in the text, and each section features informative case studies.

[Sustainable Infrastructure for Cities and Societies](#) Planning Sustainable Cities

'Transforming Cities with Transit' explores the complex process of transit and land-use integration and provides policy recommendations and implementation strategies for effective integration in rapidly growing cities in developing countries.

SOLVING URBAN INFRASTRUCTURE PROBLEMS USING SMART CITY TECHNOLOGIES

MDPI

The CityForm consortium's latest book, *Dimensions of the Sustainable City*, is the first book to report on an empirical multi-disciplinary study specifically designed to address urban sustainability. Drawing together the various dimensions of sustainability – economic, social, transport, energy and ecological – the book examines their relationships both to each other and to urban form. The book investigates the sustainability dimensions of cities through a series of projects based on a common list of elements of urban form, and which draw on the consortium's latest research to review the sustainability issues of each dimension. The elements of urban form include density, land use, location, accessibility, transport infrastructure and characteristics of the built environment. The book also addresses issues such as adapting cities, psychological and ecological benefits of green space and sustainable lifestyles, each presenting a critical review of the relevant literature followed by an empirical analysis presenting the key results. Based on studies across five UK cities, the book draws out findings of relevance to sustainable cities worldwide. As well as an invaluable reference to researchers in sustainable planning and urban design, the book will provide a useful text for advanced undergraduate and graduate courses and for policy makers dealing with these issues. The CityForm consortium is a multi-disciplinary group of researchers from five universities funded by the UK Engineering and Physical Science Research Council from 2003-07.

A FRAMEWORK FOR A GREEN INFRASTRUCTURE PLANNING APPROACH IN THE GAUTENG CITY-REGION

Routledge

This book builds on the recent publications on cities and climate change, resilient cities and coasts, and sustainable cities, and looks at the ways in which current planning approaches will need to be adapted to embrace concepts including green growth, planetary boundaries, healthy cities and longer-term sustainability.

[Planning Sustainable Cities and Regions](#) Springer Nature

The concept of 'sustainable urban development' has been pushed to the forefront of policymaking and politics as the world wakes up to the impacts of climate change and the destructive effects of the Anthropocene. Climate change has emerged to be one of the

biggest challenges faced by our planet today, threatening both built and natural systems with long-term consequences, which may be irreversible. While there is a vast body of literature on sustainability and sustainable urban development, there is currently limited focus on how to cohesively bring together the vital issues of the planning, development, and management of sustainable cities. Moreover, it has been widely stated that current practices and lifestyles cannot continue if we are to leave a healthy living planet to not only the next generation, but also to the generations beyond. The current global school strikes for climate action (known as Fridays for Future) evidences this. The book advocates the view that the focus needs to rest on ways in which our cities and industries can become green enough to avoid urban ecocide. This book fills a gap in the literature by bringing together issues related to the planning, development, and management of cities and focusing on a triple-bottom-line approach to sustainability.

Green Infrastructure Concise Guides to Planning

This book provides insights and discusses human-centered urban design and placemaking, human activities and urban mobility in China. It argues that sustainable urban design and mobility should be “people-centered” and concerned about “place-making” in the new era of Chinese urbanization. Successful urban design and placemaking should adopt interdisciplinary approaches to planning and designing “space” and “place”. A core vision is the delivery of urban spaces that can cater to the needs of an increasingly diverse crowd of urban dwellers calling cities home. The book prompts Chinese urbanists to reconsider and explore a sustainable and people-first planning and design approach with Chinese characteristics. The breadth and depth of this book is of particular interest to those faculty members, students, practitioners and the general public who are interested in subjects like urban design, transport planning, mobility analysis and planning, housing and community development, infrastructure planning, environmental planning, social equity and beyond. This book discussing human-centered urban design and placemaking, human activities and urban mobility is part of a 2 volume set. Volume I deals with human-centered urban planning and development, rural planning and urban-rural coordination in China.

SUSTAINABLE INFRASTRUCTURE

IGI Global

Urban planning refers to the process of development of the land and infrastructure of a place. It also includes development of transportation, distribution networks, communications, public welfare, and urban design, etc. It integrates the elements of civil engineering and urban architecture to help in the growth and development of the cities. This book includes some of the vital pieces of work being conducted across the world, on various topics related to urban planning. The aim of the book is to present researches that have transformed this discipline and aided its advancement. It is a vital tool for all researching and studying this field.

Sustainable Urban and Regional Infrastructure Development: Technologies, Applications and Management Routledge

Today, citizens advocate greater environmental sustainability, better services and the improvement of urban quality by promoting safer mobility, especially for the most vulnerable road users. Addressing these issues, *Town and Infrastructure Planning for Safety and Urban Quality* contains papers presented at the XXIII International Conference “Living and Walking in Cities” (Brescia, Italy, 15-16 June 2017). The contributions discuss town planning issues, look at best practices and research findings across the broad spectrum of urban and transport planning, with particular attention to the safety of pedestrians in the city. The main topics of the book are: - Urban regeneration. A focus on walkability (vulnerable road users; boosting and planning soft mobility) - Road safety and urban planning - vulnerable road users: planning for safety (integrated land use and transport planning; methodological approaches and case studies; integrated tools for town and transport planning; shaping public spaces and walkability; transport solutions for tourism) - Innovative and traditional solutions for Italian cities - Extra-European approaches to town and infrastructure planning - Different perspectives in road safety: prevention, infrastructure,

sharing - Advances in road safety Town and Infrastructure Planning for Safety and Urban Quality is a powerful plea for a multi-disciplinary and comprehensive approach to urban mobility and planning, and will be of interest to academics, consultants and practitioners interested in these areas.

Sustainable Infrastructure for Cities and Societies IGI Global

"This book aims to bridge the gap in the current literature by addressing the overall problems present in major infrastructure in society, and the technologies that may be applied to overcome these problems"--Provided by publisher.

Planning Sustainable Cities Springer

This book analyses international Green Infrastructure (GI) planning and design strategies. The GI strategy is widely recognized for its multifunctionality (as a tool for ecological, economic and social enhancement) and multiscale. Starting from this assumption, the book intends to implement the concept of GI and blue networks in planning strategies and their linked urban projects. New urban and regional paradigms of the latest years, such as urban sprawl, ecosystem services, biodiversity, urban resilience, climate change and health emergencies, have made it necessary to rethink cities and territories and their related plans and projects. To satisfy these paradigms, worldwide plans and projects have started to focus both on short-term and long-term processes and strategies which integrate environmental, landscape and ecological elements. Chapters 1 and 6 are available open access under a Creative Commons Attribution 4.0 International License via link.springer.com.

Alternative Urban Futures Routledge

Planning Sustainable Cities: An infrastructure-based approach provides an analytical framework for urban sustainability, focusing on the services and performance of infrastructure systems. The book approaches infrastructure as a series of systems that function in synergy and are directly linked with urban planning. This method streamlines and guides the planning process, while still highlighting detail, each infrastructure system is decoded in four "system levels". The levels organize the processes, highlight connections between entities and decode the high-level planning and decision making process affecting infrastructure. For each system level strategic objectives of planning are determined. The objectives correspond to the five focus areas of the Zofnass program: Quality of life, Natural World, Climate and Risk, Resource Allocation, Leadership. Developed through the Zofnass Program at the Harvard Graduate School of Design, this approach integrates the key infrastructure systems of Energy, Landscape, Transportation, Waste, Water, Information and Food and explores their synergies through land use planning, engineering, economics and policy. The size and complexity of infrastructure systems means that multiple stakeholders facing their own challenges and agendas are involved in planning; this book creates a common, collaborative platform between public authorities, planners, and engineers. It is an essential resource for those seeking Envision Sustainability Professionals accreditation.

PLANNING, DEVELOPMENT AND MANAGEMENT OF SUSTAINABLE CITIES

Routledge

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 technology 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.

Dimensions of the Sustainable City IGI Global

Urban transport systems worldwide are faced by a multitude of challenges. Among the most visible of these are the traffic gridlocks experienced on city roads and highways all over the world. The prescribed solution to transport problems in most cities has thus been to build more infrastructures for cars, with a limited number of cities improving public transport systems in a sustainable manner. However, a number of challenges faced by urban transport systems - such as greenhouse gas emissions, noise and air pollution and road traffic accidents - do not necessarily get solved by the construction of new infrastructure. *Planning and Design for Sustainable Urban Mobility* argues that the development of sustainable urban transport systems requires a conceptual leap. The purpose of 'transportation' and 'mobility' is to gain access to destinations, activities, services and goods. Thus, access is the ultimate objective of transportation. As a result, urban planning and design should focus on how to bring people and places together, by creating cities that focus on accessibility, rather than simply increasing the length of urban transport infrastructure or increasing the movement of people or goods. Urban form and the functionality of the city are therefore a major focus of this report, which highlights the importance of integrated land-use and transport planning. This new report of the United Nations Human Settlements Programme (UN-Habitat), the world's leading authority on urban issues, provides some thought-provoking insights and policy recommendations on how to plan and design sustainable urban mobility systems. The *Global Report on Human Settlements* is the most authoritative and up-to-date global assessment of human settlements conditions and trends. Preceding issues of the report have addressed such topics as *Cities in a Globalizing World*, *The Challenge of Slums*, *Financing Urban Shelter*, *Enhancing Urban Safety and Security*, *Planning Sustainable Cities and Cities and Climate Change*.

Rethinking Sustainable Development Springer Nature

The central role of infrastructure to cities, and in particular their sustainability, is essential for proper planning and design since most energy and materials are themselves consumed by or through infrastructures. Moreover, infrastructures of all types affect matters of economic and social equity, due to access that they provide or prevent. *Sustainable Infrastructure for Cities and Societies* shows how fundamental planning, design, finance, and governance principles can be adapted for sustainable infrastructure to provide solutions to make cities significantly more sustainable. By providing a contemporary overview on infrastructure, cities, planning, economics, and sustainability, the book addresses how to plan, design, finance, and manage infrastructure in ways that reduce consumption and harmful impacts while maintaining and improving life quality. It considers the interrelationships between the economic, political, societal, and institutional frameworks, providing an integrative approach including livability and sustainability, principles and practice, and planning and design. It further translates these approaches that professionals, policymakers, and leaders can use. This approach gives the book wide appeal for students, researchers, and practitioners hoping to build a more sustainable world.

Sustainable Cities: A Guide to Urban Planning Gauteng City

Region Observatory (GCRO)

Concentrating on the planning and design of cities, the three sections take a logical route through the discussion from the broad considerations at regional and city scale, to the larger city at high and lower densities through to design considerations on the smaller block scale. Key design issues such as access to facilities, access for sunlight, life cycle analyses, and the impact of communications on urban design are tackled, and in conclusion, the research is compared to large scale design examples that have been proposed and/or implemented over the past decade to give a vision for the future that might be achievable.

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