

Green Infrastructure: A Landscape Approach



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Green Infrastructure A Landscape Approach

Tom Daniels



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Green Infrastructure David C. Rouse, Ignacio F. Bunster-Ossa, 2013 Introduction Landscape planning design and green infrastructure Green infrastructure in practice Case studies Green infrastructure at the regional scale Cleveland and Northeast Ohio Green infrastructure for a city in transition North Texas returning to the trinity Green infrastructure in large cities Philadelphia making the greenest city of America Seattle a city's journey toward sustainability Green infrastructure in smaller communities Lancaster Pennsylvania managing stormwater pollution and enhancing community through green infrastructure Lenexa Kansas rain to recreation Onondaga County New York save the rain Parks greenways river corridors as green infrastructure Birmingham Alabama a green infrastructure movement Los Angeles River using green infrastructure to revitalize a city Louisville Metro Kentucky application of green infrastructure from region to site Menomonee Valley Park and Redevelopment Milwaukee Summarizing the case studies Appendix a model regulatory framework for green infrastructure

Green Infrastructure Ian C. Mell, 2018-12-07 Our understandings of the landscapes around us are constantly changing How we interact with manage and value these spaces is important as it helps us to ensure we live in attractive functional and sustainable places Green Infrastructure planning is the current go to approach in landscape planning that incorporates human environmental interactions understandings of ecology and how socio cultural factors influence our use of parks gardens and waterways This book explores several interpretations of Green Infrastructure bringing together case studies of policy practice ecological change and community understandings of landscape Focusing on how planning policy shapes our interactions with the landscape as individuals and communities the book discusses what works and what needs to be improved It examines how environmental management can promote more sustainable approaches to landscape protection ensuring that water resources and ecological communities are not harmed by development It also asks what the economic and community values of Green Infrastructure are to illustrate how different social ecological and political factors influence how our landscapes are managed The central message of the book focusses on the promotion of multi functional nature within urban landscapes that helps people the economy and the environment to meet the challenges of population infrastructure and economic change The chapters in this book were originally published as a special issue in Landscape Research

Planning with Landscape: Green Infrastructure to Build Climate-Adapted Cities Camila Gomes Sant'Anna, Ian Mell, Luciana Bongiovanni Martins Schenk, 2023-03-01 This edited volume examines how to develop a planning and design process with green infrastructure that creates technical answers to the social and ecological function of the city's climate change adaptations demands In this context it proposes a process that engage the values linked to the art and culture of the place capable of generating adoption by the population and promoting the right to landscape Since the nineteenth century many theoretical and practical experiences have integrated urban and environmental issues revising the understanding of nature as an object and thinking of nature and culture in conjunction However consensus of the

methodological strategies needed to guide the development of multi scale landscape planning and design capable of responding to the climate emergency heritage water biodiversity and social inclusion among other issues has not been achieved Green infrastructure has emerged as a tool to link considerations of the planning and design process to examine the impact urban nature can have at a global and a local scale The book gathers together authors from different parts of the world and disciplines to showcase conceptual thinking best practices and methodological strategies relating to landscape planning and design with green infrastructure adapted to climate change The topic of this book is particularly relevant to scholars practitioners and developers around the world who have an interest in planning and environmental management landscape architecture and socio cultural understandings of landscape

Handbook on Green Infrastructure Danielle Sinnott, Nick Smith, Sarah Burgess, 2015-11-27 Green infrastructure encompasses many features in the built environment It is widely recognised as a valuable resource in our towns and cities and it is therefore crucial to understand create protect and manage this resource This Handbook sets the context for green infrastructure as a means to make urban environments more resilient sustainable liveable and equitable Including state of the art reviews that summarise the existing knowledge as well as research findings this Handbook provides current evidence for the beneficial impact of green infrastructure on health environmental quality and the economy It discusses the planning and design of green infrastructure as a strategic network down to the individual features in a neighbourhood and looks at the process of green infrastructure implementation emphasising the importance of collaboration across multiple professions and sectors This comprehensive volume operates at multiple spatial scales from strategic networks at the regional level to individual features in neighbourhoods with international case studies used throughout to illustrate key examples of good practice This collection of expert contributions will be invaluable to students and academics in the fields of planning urban studies and geography Practitioners and policy makers will also find the policy discussion and examples enlightening

Revising Green Infrastructure Daniel Czechowski, Thomas Hauck, Georg Hausladen, 2018-10-08 Consider this How do we handle the convergence of landscape architecture ecological planning and civil engineering What are convenient terms and metaphors to communicate the interplay between design and ecology What are suitable scientific theories and technological means What innovations arise from multidisciplinary and cross scalar approaches What are appropriate aesthetic statements and spatial concepts What instruments and tools should be applied Revising Green Infrastructure Concepts Between Nature and Design examines these questions and presents innovative approaches in designing green landscape or nature as infrastructure from different perspectives and attitudes instead of adding another definition or category of green infrastructure The editors bring together the work of selected ecologists engineers and landscape architects who discuss a variety of theoretical aspects research projects teaching methods and best practice examples in green infrastructure The approaches range from retrofitting existing infrastructures through landscape based integrations of new infrastructures and envisioning prospective landscapes

as hybrids machines or cultural extensions The book explores a scientific functional approach in landscape architecture It begins with an overview of green functionalism and includes examples of how new design logics are deduced from ecology in order to meet economic and environmental requirements and open new aesthetic relationships toward nature The contributors share a decidedly cultural perspective on nature as landscape Their ecological view emphasizes the individual nature of specific local situations Building on this foundation the subsequent chapters present political ideas and programs defining social relations toward nature and their integration in different planning systems as well as their impact on nature and society They explore different ways of participation and cooperation within cities regions and nations They then describe projects implemented in local contexts to solve concrete problems or remediate malfunctions These projects illustrate the full scope presented and discussed throughout the book the use of scientific knowledge strategic thinking communication with municipal authorities and local stakeholders design implementation on site and documentation and control of feedback and outcome with adequate indicators and metrics Although diverse and sometimes controversial the discussion of how nature is regarded in contrast to society how human natural systems could be organized and how nature could be changed optimized or designed raises the question of whether there is a new paradigm for the design of social relations to nature The multidisciplinary review in this book brings together discussions previously held only within the respective disciplines and demonstrates how they can be used to develop new methods and remediation strategies

Green Infrastructure Mark A. Benedict, Edward T. McMahon, Mark A. The Conservation Fund, 2012-09-26 With illustrative and detailed examples drawn from throughout the country Green Infrastructure advances smart land conservation large scale thinking and integrated action to plan protect and manage our natural and restored lands From the individual parcel to the multi state region Green Infrastructure helps each of us look at the landscape in relation to the many uses it could serve for nature and people and determine which use makes the most sense In this wide ranging primer leading experts in the field provide a detailed how to for planners designers landscape architects and citizen activists

Planning for Climate Change Elisabeth M. Hamlin Infield, Yaser Abunnasr, Robert L. Ryan, 2018-09-18 This book provides an overview of the large and interdisciplinary literature on the substance and process of urban climate change planning and design using the most important articles from the last 15 years to engage readers in understanding problems and finding solutions to this increasingly critical issue The Reader's particular focus is how the impacts of climate change can be addressed in urban and suburban environments what actions can be taken as well as the need for and the process of climate planning Both reducing greenhouse gas emissions as well as adapting to future climate are explored Many of the emerging best practices in this field involve improving the green infrastructure of the city and region providing better on site stormwater management more urban greening to address excess heat zoning for regional patterns of open space and public transportation corridors and similar actions These actions may also improve current public health and livability in cities bringing benefits now and into the future This Reader is innovative

in bringing climate adaptation and green infrastructure together encouraging a more hopeful perspective on the great challenge of climate change by exploring both the problems of climate change and local solutions *Landscape Architecture and Environmental Sustainability* Joshua Zeunert, 2017-01-12 Winner of the Australian Institute of Landscape Architects AILA National Excellence Award Research and Communication 2017 Winner of the AILA VIC Excellence Award Research and Communication 2017 Highly Commended Communication and Presentation Landscape Institute Awards 2018 Landscape architecture has a pivotal role in ensuring environmental sustainability through design interventions This book takes a broad look at strategies and completed projects to provide the reader with a strong understanding of the sustainability challenges being faced by designers today and potential routes to addressing them The book covers essential concepts of landscape architecture and environmental sustainability including Ecology multifunctional landscapes and sensitive intervention Remediation cleansing and environmental infrastructure Social sustainability design activism and healthy landscapes Food systems productive landscapes and transportation Performance ratings materials and life cycles Through case studies from around the world and interviews with leading landscape architects and practitioners this book invites discussion about possible future scenarios relevant theories and project responses in landscape environmental design With hundreds of color images throughout the book and additional study material in the companion website Joshua Zeunert provides an overview of the multidimensional qualities of landscape sustainability [Global Green Infrastructure](#) Ian Mell, 2016-03-10 Over the last decade research exploring green infrastructure planning has burgeoned Transferable green infrastructure messages between locations though are less well established and there remains a visible gap between the conceptual understanding of green infrastructure and its application in practice Drawing together evaluations of green infrastructure policy making and practice from across the world *Global Green Infrastructure* illustrates where successful practices can be identified Examples from major green infrastructure development areas in the UK Europe and the USA highlight the variety of investment options that can deliver socio economic benefits There is also a growing awareness of the added value of landscape planning in the rapidly developing cities of India and China Reflecting on ten international case studies *Global Green Infrastructure* highlights the ways that ecology and engineered solutions can deliver successful urban development Based on in situ research with the growing community of green infrastructure researchers and practitioners *Global Green Infrastructure* looks at the contradictions consensus and expanding evidence base of successful investments This book also presents an in depth commentary on the contemporary approaches to investment in urban greening and green infrastructure and draws on the lessons we have learnt from a decade of experimentation delivery and reflection *Modern Approaches to the Visualization of Landscapes* Dennis Edler, Corinna Jenal, Olaf Kühne, 2021-01-31 The volume deals with the effects of digitization on spatial and especially landscape construction processes and their visualization A focus lies on the generation mechanisms of landscapes with digital tools of cartography and geomatics including possibilities to model and visualize non

visual stimuli but also spatial temporal changes of physical space Another focus is on how virtual spaces have already become part of the social and individual construction of landscape Potentials of combining modern media of spatial visualization and constructivist landscape research are discussed

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