

## URBAN RETROFITTING FOR SUSTAINABILITY

Mapping the Transition to 2050

Edited by Tim Dixon, Malcolm Eames, Simon Lannon and Miriam Hunt



# **Urban Retrofitting For Sustainability Mapping The Transition To 2050**

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#### **Urban Retrofitting For Sustainability Mapping The Transition To 2050:**

Urban Retrofitting for Sustainability Tim Dixon, Malcolm Eames, Miriam Hunt, Simon Lannon, 2014-01-21 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 governance 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 Urban Retrofitting for Sustainability Tim Dixon, Malcolm Eames, Miriam Hunt, Simon Lannon, 2014-01-21 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 governance 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 Retrofitting Cities for Tomorrow's World Malcolm Eames, Tim Dixon, Miriam Hunt, Simon Lannon, 2017-09-08 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 towards 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 **Urban Futures** Timothy J. Dixon, Mark Tewdwr-Jones, 2023-10-17 This book explores the history and evolution of city visions placing them in the wider context of art culture science foresight and urban theory Urban Disaster Resilience David Sanderson, Jerold Kayden, Julia Leis, 2016-04-14 Accelerating urbanization worldwide means more urban centered disasters Floods earthquakes storms and conflicts affecting densely populated areas produce significant losses in lives livelihoods and the built environment especially in comparison to rural areas Poor urban dwellers almost always the most vulnerable too often bear the brunt Aid agencies and urban professionals have been slowly adapting to these new conditions but older models and practices hinder the most effective engagements Drawing directly from the experiences of urban disasters in the Philippines Chile India Thailand Iraq Haiti and Nepal among other countries Urban Disaster Resilience brings to light new collaborations and techniques for addressing the challenges of urban disasters in the coming years Chapters range from country specific case studies to more synthetic frameworks in order to promote innovative thinking and practical solutions Edited by David Sanderson Jerold S Kayden and Julia Leis this book is a crucial read for humanitarian and disaster specialists urban planners and designers architects landscape architects housing and economic development professionals real estate developers private business managers and students interested in the subject whether based in non governmental organizations local state or national governments international agencies private firms or the academy Sustainable Futures in the Built Environment to 2050 Tim Dixon, John Connaughton, Stuart Green, 2018-02-20 Brings together leading thinking on issues of new professional practice and on the future of a sustainable built environment This book focuses on both construction and development issues and examines how we can transition to a sustainable future by the year 2050 bringing together leading research and practice at building neighbourhood and city levels It deftly analyses how emerging socio economic technological and environmental trends will influence the built environment of the future The book covers a broad spectrum of interests across the scales of buildings communities and cities including how professional practice will need to adapt to these trends The broader context is provided by an analysis of emergent business models and the changing requirements for expert advice from clients Sustainable Futures in the Built Environment to 2050 A Foresight Approach to Construction and Development features

chapters covering data and trends including historical data and UK and international case studies policies and practice related to the field current state of scientific understanding key challenges key technological advances including disruptive and systemic technological innovations change issues and critical uncertainties and future visions It provides A strong conceptual framework based on a Foresight approach Discussion of the key data and trends that underpin each chapter Coverage of both construction and property development Specially commissioned chapters by academics and practitioners A synthesis of the main findings in the book and key insights for the future to 2050 Sustainable Futures in the Built Environment to 2050 A Foresight Approach to Construction and Development is an important book for postgraduate students and researchers construction real estate and property development specialists engineers planners architects foresight and futures studies specialists and anyone involved in sustainable buildings **Urban Sustainability Transitions** Niki Frantzeskaki, Vanesa Castán Broto, Lars Coenen, Derk Loorbach, 2017-06-14 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 **Advances in Construction ICT and e-Business Srinath** Geography Urban Studies Urban Policy and Planning Perera, Bingunath Ingirige, Kirti Ruikar, Esther Obonyo, 2017-05-08 This internationally conducted study of the latest construction industry practices addresses a broad range of Information and Communication Technology applications Drawing on research conducted in the US and UK this book presents the state of the art of various ebusiness processes and examines BIM virtual environments and mobile technologies Innovation is a theme that runs throughout this book so in addition to the direct impact of these new technical achievements it also considers the management styles that helped them to emerge Examples from industry are illustrated with case studies and presented alongside research from some of the best known

academics in this field This book is essential reading for all advanced students and researchers interested in how ICT is changing construction management and the construction industry The Palgrave Encyclopedia of Urban and Regional Futures Robert C. Brears, 2023-01-13 While urban settlements are the drivers of the global economy and centres of learning culture and innovation and nations rely on competitive dynamic regions for their economic social and environmental objectives urban centres and regions face a myriad of challenges that impact the ways in which people live and work create wealth and interact and connect with places Rapid urbanisation is resulting in urban sprawl rising emissions urban poverty and high unemployment rates housing affordability issues lack of urban investment low urban financial and governance capacities rising inequality and urban crimes environmental degradation increasing vulnerability to natural disasters and so forth At the regional level low employment low wage growth scarce financial resources climate change waste and pollution and rising urban peri urban competition etc are impacting the ability of regions to meet socio economic development goals while protecting biodiversity The response to these challenges has typically been the application of inadequate or piecemeal solutions often as a result of fragmented decision making and competing priorities with numerous economic environmental and social consequences In response there is a growing movement towards viewing cities and regions as complex and sociotechnical in nature with people and communities interacting with one another and with objects such as roads buildings transport links etc within a range of urban and regional settings or contexts This comprehensive MRW will provide readers with expert interdisciplinary knowledge on how urban centres and regions in locations of varying climates lifestyles income levels and stages development are creating synergies and reducing trade offs in the development of resilient resource efficient environmentally friendly liveable socially equitable integrated and technology enabled centres and regions

Resilient Urban Environments Runming Yao,2024-06-16 This book aims to provide evidence of the impact of climate change and urbanization on cities urban environments thus on human health and wellbeing and principles and methods for the improvement of the resilience of a city to extreme weather and long term climatic changes through case studies The book will have three themes of 1 Understanding the adverse environmental impact on human health and wellbeing 2 analysis of adaptation and mitigation measures through modeling technologies 3 providing best practice examples of the implementation of the proposed measures The book will present the liveable cities including factors affecting liveability ecological and biophilic city economic values health and well being and opportunities for people Physical and social health will be an important issue in the context of resilient cities The widespread concerns will be addressed including physical and mental health wellbeing in terms of building use building surroundings and Biophilia location in the context of sustainability and work life balance and spatial scale and community 
Urban Vulnerability and Climate Change in Africa Stephan Pauleit, Adrien Coly, Sandra Fohlmeister, Paolo Gasparini, Gertrud Jørgensen, Sigrun Kabisch, Wilbard J. Kombe, Sarah Lindley, Ingo Simonis, Kumelachew Yeshitela, 2015-04-13 Urbanisation and climate change are among the major challenges for

sustainable development in Africa The overall aim of this book is to present innovative approaches to vulnerability analysis and for enhancing the resilience of African cities against climate change induced risks Locally adapted IPCC climate change scenarios which also consider possible changes in urban population have been developed Innovative strategies to land use and spatial planning are proposed that seek synergies between the adaptation to climate change and the need to solve social problems Furthermore the book explores the role of governance in successfully coping with climate induced risks in urban areas The book is unique in that it combines a top down perspective of climate change modeling with a bottom up perspective of vulnerability assessment quantitative approaches from engineering sciences and qualitative approaches of the social sciences a novel multi risk modeling methodology and strategic approaches to urban and green infrastructure planning with neighborhood perspectives of adaptation The Environmental Design Pocketbook Sofie Pelsmakers, 2019-10-23 The Environmental Design Pocketbook 2nd ed places the information you need for sustainable low energy building design at your fingertips Packed with diagrams tools and tips it cuts through the complex mass of technical data and legislation that faces the designer and distils all the key guidance into a single reference that is guick easy to use and points to the facts figures and performance data that are most important This 2nd edition is now fully up to date with the latest Building Regulations Part L and F legislation England and Wales RIBA Plan of Work 2013 new information on the Green Deal and Zero Carbon and contains revised references and further reading sections throughout Whether used in the classroom office or on site the book guides the designer through the entire process from the fundamentals to the building details From future proofing for a changing climate to rainwater harvesting retrofit and zero carbon technologies the Pocketbook has got it covered

Routledge Handbook of Sustainable Real Estate Sara Wilkinson, Tim Dixon, Norm Miller, Sarah Sayce, 2018-03-21 With the built environment contributing almost half of global greenhouse emissions there is a pressing need for the property and real estate discipline to thoroughly investigate sustainability concerns The Routledge Handbook of Sustainable Real Estate brings together the latest research of leading academics globally demonstrating the nature and extent of the impact as well as suggesting means of mitigating humankind s impact and building resilience Four sections examine the different aspects of sustainable real estate governance and policy valuation investment and finance management redevelopment and adaptation Covering all land uses from residential to commercial retail and industrial the Routledge Handbook of Sustainable Real Estate is an exciting mixture of received wisdom and emerging ideas and approaches from both the developed and developing world Academics upper level students and researchers will find this book an essential guide to the very best of sustainable real estate research 

Cities in the 21st Century Oriol Nel-lo, Renata Mele, 2016-02-19 Cities in the 21st Century provides an overview of contemporary urban development Written by more than thirty major academic specialists from different countries it provides information on and analysis of the global network of cities changes in urban form environmental problems the role of technologies and knowledge socioeconomic developments and finally the challenge of

urban governance In the mid 20th century architect and planner Josep Llu s Sert wondered if cities could survive in the early 21st century we see that cities have not only survived but have grown as never before Cities today are engines of production and trade forges of scientific and technological innovation and crucibles of social change Urbanization is a major driver of change in contemporary societies it is a process that involves acute social inequalities and serious environmental problems but also offers opportunities to move towards a future of greater prosperity environmental sustainability and social justice With case studies on thirty cities in five continents and a selection of infographics illustrating these dynamic cities this edited volume is an essential resource for planners and students of urbanization and urban change *Urban Energy Poverty and Positive Energy Districts* Siddharth Sareen, Caitlin Robinson, Harriet Thomson, Rigoberto García, 2022-02-15

Conceptualizing Germany's Energy Transition Ludger Gailing, Timothy Moss, 2016-05-06 This is the first book to explore ways of conceptualizing Germany's ongoing energy transition Although widely acclaimed in policy and research circles worldwide the Energiewende is poorly understood in terms of social science scholarship There is an urgent need to delve beyond descriptive accounts of policy implementation and contestation in order to unpack the deeper issues at play in what has been termed a grand societal transformation. The authors approach this in three ways First they select and characterize conceptual approaches suited to interpreting the reordering of institutional arrangements socio material configurations power relations and spatial structures of energy systems in Germany and beyond Second they assess the value of these concepts in describing and explaining energy transitions pinpointing their relative strengths and weaknesses and exploring areas of complementarity and incompatibility Third they illustrate how these concepts can be applied individually and in combination to enrich empirical research of Germany's energy transition **EURO Working Group on DSS** Jason Papathanasiou, Pascale Zaraté, Jorge Freire de Sousa, 2021-08-09 This book recapitulates the major developments in Decision Support Systems DSS over the last 30 years in order to evaluate the research areas of decision making and in which direction the field should proceed As it attempts to find a consensus about the next steps for the future of DSS research the book also enforces the trends and new technologies currently in use The book examines topics such as decision analysis for enterprise systems and non hierarchical networks integrated solutions for decision support and knowledge management in distributed environments decision support system evaluation and analysis through social networks and e learning and its application to real environments It clearly presents the evidence to support their cases and attempts to promote an extensive and objective discussion In addition the book also reflects on approaches to dead end ideas and failures in DSS to better understand the lessons learned The contributions for this book have been written by thought leaders and influential researchers from the EURO Working Group of Decision Support Systems EWG DSS Handbook of Urban Geography Tim Schwanen, Ronald van Kempen, 2019 This collection brings together the latest thinking in urban geography It provides a comprehensive overview of topical issues and draws on experiences from across the world Chapters have been prepared by leading researchers in the

field and cover themes as diverse as urban economies inequalities and diversity conflicts and politics ecology and sustainability and information technologies The Handbook offers a valuable resource for students and researchers interested in cities and the urban in geography and across the wider social sciences Creating Healthy Neighborhoods Ann Forsyth, Emily Salomon, Laura Smead, 2017-10-24 Good housing Easy transit Food access Green spaces Gathering places Everybody wants to live in a healthy neighborhood Bridging the gap between research and practice it maps out ways for cities and towns to help their residents thrive in placed designed for living well approaching health from every side physical mental and social **Urban Drainage** David Butler, Christopher James Digman, Christos Makropoulos, John W. Davies, 2018-04-09 This new edition of a well established textbook covers the environmental and engineering aspects of the management of rainwater and wastewater in areas of human development Urban Drainage deals comprehensively not only with the design of new systems but also the analysis and upgrading of existing infrastructure Keeping its balance of principles practice and research this new edition has significant new material on modelling resilience smart systems and the global and local context The two new authors bring further research and practice based experience This is an essential text for undergraduate and graduate students lecturers and researchers in water engineering environmental engineering public health engineering engineering hydrology and related non engineering disciplines It also serves as a dependable reference for drainage engineers in water service providers local authorities and for consulting engineers Extensive examples are used to support and demonstrate the key issues throughout the text

The Top Books of the Year Urban Retrofitting For Sustainability Mapping The Transition To 2050 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the engaging narratives that have charmed audiences this year. The Must-Read: Colleen Hoovers "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Uncover the Best: Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic: Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a guiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and thrilling novel that will keep you speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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