

INTRODUCTION americas most sustainable cities and regions surviving the 21st century megatrends [PDF]

Sustainable Cities in the 21st Century Sustainable Cities and Communities Building Sustainable Cities The Sustainable City Sustainable Cities in Asia America's Most Sustainable Cities and Regions The Routledge Handbook of Sustainable Cities and Landscapes in the Pacific Rim The Routledge Handbook of Sustainable Cities and Landscapes in the Pacific Rim Sustainable Cities Reimagined SDG11 - Sustainable Cities and Communities Planning Sustainable Cities and Regions Cities and Sustainability Resilient Sustainable Cities Performance Metrics for Sustainable Cities Transit Oriented Development and Sustainable Cities Smart and Sustainable Cities? Sustainable Communities Design Handbook Smart and Sustainable Cities and Buildings Planning Sustainable Cities Sustainable Cities and Communities Design Handbook Sustainable City and Creativity Advances in the Leading Paradigms of Urbanism and their Amalgamation Building Sustainable Cities of the Future Sustainable Pathways for our Cities and Regions Reimagining Sustainable Cities Planning, Development and Management of Sustainable Cities Living in Smart Cities Sustainable Cities for the Third Millennium: The Odyssey of Urban Excellence Sharing Cities Simulation Gaming. Applications for Sustainable Cities and Smart Infrastructures Smart Sustainable Cities and Knowledge-Based Economy Sustainable Cities in Developing Countries Sustainable Cities and Energy Policies Governing Sustainable Cities Sustainable Urbanism in Digital Transitions Dimensions of the Sustainable City Lifelong Learning and Education in Healthy and Sustainable Cities The Citizens at Risk The Sustainable City IX Sustainable Cities

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Sustainable Cities in the 21st Century 1999 this book is about the growth and future development of cities its collection of nine essays brings together a variegation of views and visions of how we might build sustaining cities into the 21st century with one staying concern a better tomorrow the essays do not profess to provide answers but rather alternative starting points for further explorations and reflections on the meaning of sustainable development for our cities

Sustainable Cities and Communities 2020-04-09 the problems related to the process of industrialisation such as biodiversity depletion climate change and a worsening of health and living conditions especially but not only in developing countries intensify therefore there is an increasing need to search for integrated solutions to make development more sustainable the united nations has acknowledged the problem and approved the 2030 agenda for sustainable development on 1st january 2016 the 17 sustainable development goals sdgs of the agenda officially came into force these goals cover the three dimensions of sustainable development economic growth social inclusion and environmental protection the encyclopedia of the un sustainable development goals comprehensively addresses the sdgs in an integrated way the encyclopedia encompasses 17 volumes each one devoted to one of the 17 sdgs this volume addresses sdg 11 namely make cities and human settlements inclusive safe resilient and sustainable and contains the description of a range of terms which allows a better understanding and fosters knowledge this book presents a set of papers on the state of the art of knowledge and practices about the numerous challenges for cities solutions and opportunities for the future concretely the defined targets are ensure access for all to adequate safe and affordable housing and basic services and upgrade slums provide access to safe affordable accessible and sustainable transport systems for all improving road safety notably by expanding public transport with special attention to the needs of those in vulnerable situations women children persons with disabilities and older persons enhance inclusive and sustainable urbanization and capacity for participatory integrated and sustainable human settlement planning and management in all countries strengthen efforts to protect and safeguard the world s cultural and natural heritage significantly reduce the number of deaths and the number of people affected and substantially decrease the direct economic losses relative to global gross domestic product caused by disasters including water related disasters with a focus on protecting the poor and people in vulnerable situations reduce the adverse per capita environmental impact of cities including by paying special attention to air quality and municipal and other waste management provide universal access to safe inclusive and accessible green and public spaces in particular for women and children older persons and persons with disabilities support positive economic social and environmental links between urban peri urban and rural areas by strengthening national and regional development planning substantially increase the number of cities and human settlements adopting and implementing integrated policies and plans towards inclusion resource efficiency mitigation and adaptation to climate change resilience to disasters and develop and implement in line with the sendai framework for disaster risk reduction 2015 2030 holistic disaster risk management at all levels support least developed countries including through financial and technical assistance in building sustainable and resilient buildings utilizing local materials editorial board samuel borges barbosa luciana londero brandli elisa conticelli erin a hopkins olga kuznetsova astrid skjerven hari srinivas

Building Sustainable Cities 2020-09-04 this book describes a broad view of sustainability as a crucial factor for the success of its implementation not only the environmental aspects of the sustainable cities development are reviewed but the economic and social aspects of it as highlighted in the un sustainable development goal 11 make cities and human settlements inclusive safe resilient and sustainable nowadays researchers students and stakeholders are highly involved in sustainability issues because of this they need a

guiding document to help them develop and implement sustainability programs at the level of companies and institutions in this book the authors discuss and explain basic concepts of sustainability related to social economic and environmental aspects as well as strategies for its implementation

The Sustainable City 2021-06-15 living sustainably is not just about preserving the wilderness or keeping nature pristine the transition to a green economy depends on cities economic technological and cultural forces are moving people out of rural areas and into urban areas if we are to avert climate catastrophe we will need our cities to coexist with nature without destroying it urbanization holds the key to long term sustainability reducing per capita environmental impacts while improving economic prosperity and social inclusion for current and future generations the sustainable city provides a broad and engaging overview of the urban systems of the twenty first century it approaches urban sustainability from the perspectives of behavioral change organizational management and public policy looking at case studies of existing legislation programs and public private partnerships that strive to align modern urban life and sustainability the book synthesizes the disparate strands of sustainable city planning in an approachable and applicable guide that highlights how these issues touch our lives on a daily basis including the transportation we take the public health systems that protect us where our energy comes from and what becomes of our food waste this second edition of the sustainable city dives deeper into the financing of sustainable infrastructure and initiatives and puts additional emphasis on the roles that individual citizens and varied stakeholders can play it also reviews current trends in urban inequality and discusses whether a model of sustainability that embraces a multidimensional approach to development and a multistakeholder approach to decision making can foster social inclusion it features many more examples and new international case studies spanning the globe

Sustainable Cities in Asia 2017-08-31 with asia s cities undergoing unprecedented growth in the 21st century lauded the urban century by many sustainable cities in asia provides a timely examination of the challenges facing cities across the continent including some of the projects approaches and solutions that are currently being tested this book uses numerous case studies analysing topical issues ranging from city cycling in india to green spaces in china to the use of community led energy generation projects in post fukushima japan containing contributions from an international team of scholars it also takes a multi disciplinary approach and draws on examples from a wide range of countries including china india japan korea taiwan singapore and the united arab emirates ultimately by providing a comprehensive discussion of the broader debates around the shape of sustainable urbanism it demonstrates that asia is one of the most active regions in terms of the development of sustainable city strategies tackling the contemporary issues of key importance for sustainability such as property markets migration and transport this book will appeal to students and scholars of urban geography sustainability environmental studies and asian studies

America's Most Sustainable Cities and Regions 2016-01-23 this book takes you on a unique journey through american history taking time to consider the forces that shaped the development of various cities and regions and arrives at an unexpected conclusion regarding sustainability from the american dream to globalization to the digital and information revolutions we assume that humans have taken control of our collective destinies in spite of potholes in the road such as the great recession of 2007 2009 however these attitudes were formed during a unique 100 year period of human history in which a large but finite supply of fossil fuels was tapped to feed our economic and innovation engine today at the peak of the oil age the horizon looks different cities such as los angeles phoenix and las vegas are situated where water and other vital ecological services are scarce and the enormous flows of resources and energy

that were needed to create the megalopolises of the 20th century will prove unsustainable climate change is a reality and regional impacts will become increasingly severe economies such as las vegas which are dependent on discretionary income and buffeted by climate change are already suffering the fate of the proverbial canary in the coal mine finite resources will mean profound changes for society in general and the energy intensive lifestyles of the us and canada in particular but not all regions are equally vulnerable to these 21st century megatrends are you ready to look beyond america s most livable cities to the critical factors that will determine the sustainability of your municipality and region find out where your city or region ranks according to the forces that will impact our lives in the next years and decades find out how resource availability and ecological services shaped the modern landscape emerging megatrends will make cities and regions more or less livable in the new century your city or region ranks on a sustainability map of the united states urban metabolism puts large cities at particular risk sustainability factors will favor economic solutions at a local rather than global level these principles apply to industrial economies and countries globally this book should be cited as follows j day c hall e roy m moersbaecher c d elia d pimentel and a yanez 2016 america s most sustainable cities and regions surviving the 21st century megatrends springer new york 348 p

The Routledge Handbook of Sustainable Cities and Landscapes in the Pacific Rim 2022-03-17 this handbook addresses a growing list of challenges faced by regions and cities in the pacific rim drawing connections around the what why and how questions that are fundamental to sustainable development policies and planning practices these include the connection between cities and surrounding landscapes across different boundaries and scales the persistence of environmental and development inequities and the growing impacts of global climate change including how physical conditions and social implications are being anticipated and addressed building upon localized knowledge and contextualized experiences this edited collection brings attention to place based approaches across the pacific rim and makes an important contribution to the scholarly and practical understanding of sustainable urban development models that have mostly emerged out of the western experiences nine sections each grounded in research dialogue and collaboration with practical examples and analysis focus on a theme or dimension that carries critical impacts on a holistic vision of city landscape development such as resilient communities ecosystem services and biodiversity energy water health and planning and engagement this international edited collection will appeal to academics and students engaged in research involving landscape architecture architecture planning public policy law urban studies geography environmental science and area studies it also informs policy makers professionals and advocates of actionable knowledge and adoptable ideas by connecting those issues with the sustainable development goals sdgs of the united nations the collection of writings presented in this book speaks to multiyear collaboration of scholars through the apru sustainable cities and landscapes scl program and its global network facilitated by scl annual conferences and involving more than 100 contributors from more than 30 institutions the open access version of chapters 1 2 4 11 17 23 30 37 42 49 and 56 of this book available at taylorfrancis com books e 9781003033530 have been made available under a creative commons attribution non commercial no derivatives 4 0 license

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Sustainable Cities Reimagined 2019-11-14 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 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

SDG11 - Sustainable Cities and Communities 2018-11-13 sdg11 will map success stories policies and strategies from various regions that include actions to improve natural resources management reduce ghg emissions and develop urban adaptation resilience strategies and disaster risk management to help decision makers planners and practitioners in achieving the 2030 sdg agenda

Planning Sustainable Cities and Regions 2014-09-15 as global warming advances regions around the world are engaging in revolutionary sustainability planning but with social equity as an afterthought california is at the cutting edge of this movement not only because its regulations actively reduce greenhouse gas emissions but also because its pioneering environmental regulation market innovation and left coast politics show how to blend the three es of sustainability environment economy and equity planning sustainable cities and regions is the first book to explain what this grand experiment tells us about the most just path moving forward for cities and

regions across the globe the book offers chapters about neighbourhoods the economy and poverty using stories from practice to help solve puzzles posed by academic research based on the most recent demographic and economic trends it overturns conventional ideas about how to build more livable places and vibrant economies that offer opportunity to all this thought provoking book provides a framework to deal with the new inequities created by the movement for more livable and expensive cities so that our best plans for sustainability are promoting more equitable development as well this book will appeal to students of urban studies urban planning and sustainability as well as policymakers planning practitioners and sustainability advocates around the world

Cities and Sustainability 2016-08-25 cities are the most likely actors to design and bring about lasting sustainability an agreement among the world's larger cities is possible and likely a necessary but insufficient condition to achieve sustainable development cities and sustainability explores the ways in which cities are both the biggest threat to sustainability and the most powerful tool to get us to sustainable development employing an innovative methodology to a complex issue the book proposes new metrics and approaches that assume cities as fundamental in the search for sustainability providing population projections for the world's larger cities and a hierarchy of sustainable cities the author develops two new tools i a cities approach to physical and socio economic boundaries and ii sustainability costs curves these tools are designed to be implemented in a multi stakeholder integrated partnership that truly maximizes the benefits of cities in the quest for sustainability applying the tools outlined in the book to case studies from dakar mumbai sao paulo shanghai and toronto this volume will be of great relevance to students scholars and practitioners with an interest in urban and city management climate change and environment and sustainability more broadly

Resilient Sustainable Cities 2014-01-10 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

Performance Metrics for Sustainable Cities 2021-09-02 performance metrics for sustainable cities provides an overview of measurement systems and tools to enable communities to self assess and benchmark their progress along a continuum of smart intelligent and sustainable development it begins by explaining the importance of measurement and evaluation for cities and smaller communities as well as future factors that will need to be considered and embedded into planning processes across 14 chapters the

book describes existing evaluation mechanisms that are being used for government funding decisions awards of recognition and new measurement systems to assess what makes a city smarter and more sustainable such as broader sustainable goal targets un sdgs green cities fabrication cities and compassionate cities it presents examples of metrics used for important sustainability and liveability concepts for cities such as how to measure trust engagement compassion circular economy and so forth the book ends with reflections on the feasibility of a holistic system of measurement and the implications of its implementation this volume will be of great interest to students researchers and professionals of urban sustainability planning smart cities and sustainable communities

Transit Oriented Development and Sustainable Cities 2019 this book provides new dimensions and a contemporary focus on sustainable transport urban regeneration and development in eight countries spanning four continents at different stages of development it examines the role of transit oriented development tod in improving urban sustainability and providing different transport choices exploring how these can be implemented in modern cities

Smart and Sustainable Cities? 2020-12-23 smart cities promise to generate economic social and environmental value through the seamless connection of urban services and infrastructure by digital technologies however there is scant evidence of how these activities can enhance social well being and contribute to just and equitable communities smart and sustainable cities pipedreams practicalities and possibilities provides one of the first examinations of how smart cities relate to environmental and social issues it addresses the gap between the ambitious visions of smart cities and the actual practices on the ground by focusing on the social and environmental dimensions of real smart city initiatives as well as the possibilities they hold for creating more equitable and progressive cities through detailed analyses of case studies in the united states australia the united kingdom japan germany india and china the contributors describe the various ways that social and environmental issues are interpreted and integrated into smart city initiatives and actions the findings point towards the need for more intentional engagement and collaboration with all urban stakeholders in the design development and maintenance of smart cities to ensure that everyone benefits from the increasingly digitalised urban environments of the twenty first century the chapters in this book were originally published as a special issue of the journal local environment

Sustainable Communities Design Handbook 2010-07-03 the objective of sustainable communities design handbook is to ensure a better quality of life for everyone both now and for generations to come this means creating a better and safer environment internationally through the sustainable use of natural resources encouraging sustainable development which supports a strong economy and ensuring a high quality environment that can be enjoyed by all sustainable development partnerships brings together in one reference today s most cutting edge technologies and methods for creating sustainable communities with this book environmental engineers civil engineers architects mechanical engineers and energy engineers find a common approach to building environmental friendly communities which are energy efficient the five part treatment starts with a clear and rigorous exposition of sustainable development in practice followed by self contained chapters concerning applications methods for the sustainable use of natural resources in built communities clearly explains the most cutting edge sustainable technologies provides a common approach to building sustainable communities coverage of sustainable practices from architecture to construction

Smart and Sustainable Cities and Buildings 2020-05-11 this book brings together the papers presented at the smart and sustainable built environments conference 2018 sasbe this latest research falls into two tracks smart and sustainable design and planning cities and the technicalities of smart and sustainable buildings the growth of smart cities is evident but not always linked to

sustainability this book gives an overview of the latest academic developments in increasing the smartness and sustainability of our cities and buildings aspects such as inclusivity smart cities place and space the resilient city urbanity and urban ecology are prominently featured in the design and planning part of the book while energy educational buildings comfort building design construction and performance form the sub themes of the technical part of the book this book will appeal to urban designers architects urban planners smart city designers and sustainable building experts

Planning Sustainable Cities 2016-05-20 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

Sustainable Cities and Communities Design Handbook 2017-11-27 sustainable communities design handbook green engineering architecture and technology second edition brings together the major players responsible for sustainable development at both community and metropolitan scales the book aims to explain and demonstrate the practice planning design building and managing of the engineering architectural and economic development of cities and communities to meet sustainable development objectives offering a holistic approach to creating sustainable communities the book includes a 40 percent increase in new methods and technology over the last edition and 50 percent more case studies from around the world to illustrate how common sustainability problems are solved as the concept and practices of a sustainable built environment have evolved over the years it is increasingly recognized that the scope should be expanded beyond individual buildings to the community scale written by an international team of engineers architects and environmental experts this second edition includes new hvac technologies for heating and cooling energy effect technologies for lighting and new construction materials which improve heating and cooling efficiencies this new edition will also include critical updates on international codes leed breeam and green globes explains the most cutting edge green technologies and methods for use in built communities provides a common approach in using natural resources when building and designing green communities features coverage of green practices from architecture to construction covers compliance with various international codes methods and legal frameworks

Sustainable City and Creativity 2016-04-01 the notion of creative cities where cultural activities and creative and cultural industries play a crucial role in supporting urban creativity and contributing to the new creative economy has become central to most regional and urban development strategies in recent years a creative city is supposed to develop imaginative and innovative solutions to a range of

social economic and environmental problems economic stagnancy urban shrinkage social segregation global competition or more cities and regions around the world are trying to develop facilitate or promote concentrations of creative innovative and or knowledge intensive industries in order to become more competitive these places are seeking new strategies to combine economic development with quality of place that will increase economic productivity and encourage growth against this increasing interest in creative cities this volume offers a coherent set of articles on sustainable and creative cities and addresses modern theories and concepts relating to research on sustainability and creativity it analyses principles and practices of the creative city for the formulation of policies and recommendations towards the sustainable city it brings together leading academics with different approaches from different disciplines to provide a comprehensive and holistic overview of creativity and sustainability of the city linking research and practice in doing so it puts forward ideas about stimulating the production of an innovative knowledge for a creative and sustainable city and transforming a specific knowledge into a general common knowledge which suggests best future policy actions decision making processes and choices for the change towards a human sustainable development of the city

Advances in the Leading Paradigms of Urbanism and their Amalgamation 2020-06-20 this book explores the recent advances in the leading paradigms of urbanism namely compact cities eco cities and data driven smart cities and the evolving approach to their amalgamation under the umbrella term of smart sustainable cities it addresses these advances by investigating how and to what extent the strategies of compact cities and eco cities and their merger have been enhanced and strengthened through new planning and development practices and are being supported and leveraged by the applied solutions pertaining to data driven smart cities the ultimate goal is to advance sustainability and harness its synergistic effects on multiple scales this entails developing and implementing more effective approaches to the balanced integration of the three dimensions of sustainability as well as to producing combined effects of the strategies and solutions of the prevailing approaches to urbanism that are greater than the sum of their separate effects in terms of the tripartite value of sustainability sustainable urban development is today seen as one of the keys towards unlocking the quest for a sustainable world and the big data revolution is set to erupt in cities throughout the world heralding an era where instrumentation datafication and computation are increasingly pervading the very fabric of cities and the spaces we live in thanks to the iot big data and the iot technologies are seen as powerful forces that have tremendous potential for advancing urban sustainability indeed they are instigating a massive change in the way sustainable cities can tackle the kind of special conundrums wicked problems and significant challenges they inherently embody as complex systems they offer a multitudinous array of innovative solutions and sophisticated approaches informed by groundbreaking research and data driven science as such they are becoming essential to the functioning of sustainable cities besides yet knowing to what extent we are making progress towards sustainable cities is problematic adding to the fragmented conflicting picture that arises of change on the ground in the face of the escalating rate and scale of urbanization and in the light of emerging ict and its novel applications in a nutshell new circumstances require new responses this timely and multifaceted book is intended for a wide readership as such it will appeal to researchers academics urban scientists urbanists planners designers policy makers and futurists as well as all readers interested in sustainable cities and their ongoing and future data driven transformation

Building Sustainable Cities of the Future 2017-08-28 this book draws upon the expertise of academic researchers urban planners and architects to explore the challenge of building the sustainable cities of the future it addresses this challenge by considering current cities and those of the near future and creates a picture of the sustainable city from the bottom up individual chapters cover topics such

as transport energy supply sustainable urbanism and promoting social equality in large infrastructure projects real world examples are presented to illustrate how systems thinking is used to integrate different components of a city so as to ensure that the whole is more sustainable than its parts written in an accessible style this book is intended for general readers as much as it is for students and researchers interested in sustainable cities and related topics it is also ideal for urban planners seeking best practice guidelines for sustainable urban development

Sustainable Pathways for our Cities and Regions 2018-01-03 in an urbanizing world the majority of people live in urban settlements predominantly on the coastal edge focus has historically been on people place and the challenges and opportunities of living with global change and academic attention has largely been on sustainability science or sustainable solutions this book seeks to strengthen the relatively weak link between sustainability science land use planning and socio economic change and show that a more integrated approach to planning will be required to develop more sustainable pathways for cities and regions in the future sustainable pathways for our cities and regions 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 need to be adapted to embrace concepts including green growth planetary boundaries healthy cities and longer term sustainability drawing on case studies from four cities selected for their publicly stated commitment to sustainability canberra kuala lumpur copenhagen and new york the author proposes seven sustainable pathways and draws conclusions on the positive contribution planning can make in preparing urban and regional communities for significant change in the twenty first century city this book will be of great interest to students and scholars of urban planning sustainable cities climate change green growth and community engagement it will also be of great value to leaders and community activists seeking more sustainable pathways for their cities and regions

Reimagining Sustainable Cities 2021-12-07 introduction how do we get to carbon neutrality how do we adapt to the climate crisis how might we create more sustainable economies how can we make affordable inclusive and equitable cities how do we reduce spatial inequality how could we get where we need to go more sustainably how do we manage land sustainably how can we design greener cities how do we reduce our ecological footprints how can cities better support human development how might we have more functional democracy how can each of us help lead the move toward sustainable communities conclusion

Planning, Development and Management of Sustainable Cities 2019-04-30 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

Living in Smart Cities 2017-12-28 cities around the world are becoming increasingly popular as economic powerhouses and magnets for migrants from rural and suburban areas all big cities in first and third world countries as well as emerging markets such as new york london tokyo paris shanghai hong kong singapore new dehli jakarta etc have to cope with high population density and serious challenges such as air pollution or traffic congestion how do we pack more people into big cities and yet continue to realise a high quality of life how do we plan create and manage good cities which are safe spacious green connected fair and resilient how can cities create economic wealth while still fulfilling the vision of sustaining our green planet what are best practice designs and innovative technical smart city solutions which could be leveraged to tackle these challenges and how can they be successfully commercialised these are some of the questions the reader addresses from a multi disciplinary perspective with special reference to singapore whose development from regional entrepôt to first world metropolis continues to impress business and societal leaders around the world the book s contents are broadly structured according to the following aspects i definition and taxonomy of innovative sustainable cities including its core characteristics and how they create value in terms of innovativeness and sustainability ii governance planning and selected design principles of innovative sustainable cities and how they pan out with regard to livability and sustainability and iii in depth study of selected smart city dimensions such as governance clustering connectivity mobility ageing water sports and safety

Sustainable Cities for the Third Millennium: The Odyssey of Urban Excellence 2010-09-21 at the dawn of the third millennium planet earth entered a zone of turbulence the 2008 crisis added economic uncertainty to the threat of global warming and extreme events such as droughts floods and cyclones the persisting crisis of p erty and the spectrum of pandemics and terrorism against this global landscape in an era of fragility cities already sheltering more than half of humankind appear as janus faced realities the best and worst of places vulnerable but still full of hope and will to overcome the crisis of societal values and progress in the path of susta able development this book addresses the most critical challenges for cities humanity s collective masterpieces in danger and analyses breakthrough responses for sustainable dev opment a globalisation with human face and the transition to inclusive post carbon communities the ultimate wish is that experts city planners decision makers and citizens in search of sustainable cities could find here some sources of information and inspiration to enhance the immense possibilities of cities and embrace the best possible trajectories of change

Sharing Cities 2015-11-20 the future of humanity is urban and the nature of urban space enables and necessitates sharing of resources goods and services experiences yet traditional forms of sharing have been undermined in modern cities by social fragmentation and commercialization of the public realm in sharing cities duncan mclaren and julian agyeman argue that the intersection of cities highly networked physical space with new digital technologies and new mediated forms of sharing offers cities the opportunity to connect smart technology to justice solidarity and sustainability mclaren and agyeman explore the opportunities and risks for sustainability solidarity and justice in the changing nature of sharing mclaren and agyeman propose a new sharing paradigm which goes beyond the faddish sharing economy seen in such ventures as uber and taskrabbit to envision models of sharing that are not always commercial but also communal encouraging trust and collaboration detailed case studies of san francisco seoul copenhagen medellín amsterdam and bengaluru formerly bangalore contextualize the authors discussions of collaborative consumption and production the shared public realm both physical and virtual the design of sharing to enhance equity and justice and the prospects for scaling up the sharing paradigm though city governance they show how sharing could shift values and norms enable civic engagement

and political activism and rebuild a shared urban commons their case for sharing and solidarity offers a powerful alternative for urban futures to conventional race to the bottom narratives of competition enclosure and division

Simulation Gaming. Applications for Sustainable Cities and Smart Infrastructures 2018-05-25 this book constitutes the refereed post conference proceedings of the 48th international simulation and gaming association conference isaga 2018 held in delft the netherlands in july 2018 the 19 revised full papers included in the volume were carefully reviewed and selected from 27 submissions the contributions to this book range from design thinking related to simulation gaming the analysis of the consequences of design choices in games to games for decision making examples of games for business climate change maritime spatial planning sustainable city development supply chain and much more

Smart Sustainable Cities and Knowledge-Based Economy 2023-07-10 this book provides information and resources to city planners and other public policy officials on the importance of smart sustainable cities and their relationship with urban knowledge based economy it answers important topical questions relating to urban sustainable development and human well being namely how can we implement policies and programs that can make cities smart and boost their knowledge based development how can such programs reduce inequalities and enhance the environment where people live and work the authors suggest a new approach to the creation of sustainable smart cities not only in metropolises but also in smaller urban spaces they advance the body of knowledge in entrepreneurship literature by examining both the european regional understanding of entrepreneurship and the quality of life and well being at city levels they also provide synthetic indexes to assess the relationship between perceived quality of life and entrepreneurship this book stimulates the debate on the role of smart cities in promoting entrepreneurship which is a currently under investigated topic in europe and is of interest to a wide range of practitioners professionals and academics in the area of well being and quality of life research urban studies public policy and sustainable development

Sustainable Cities in Developing Countries 2013-12-16 this text addresses the difficulties of balancing the imperatives of sustainability with the pressing challenges facing some of the world s most underdeveloped areas various perspectives are brought to bear on issues from economics and theories of health through to the foundations of sustainability all the key contemporary developments are dealt with the growth in international law and agreements on controlling greenhouse gases the effect of reforms in finance governance and methods of appraisal on the areas of waste management and the theoretical advances in the community development aspects of health and the neighbourhood environment guided by the experiences of the world bank who and unep the text is intended as a guidebook for those responsible for re shaping cities in the 21st century

Sustainable Cities and Energy Policies 1999-01-21 the aim of this book is to highlight the great potential of decentralized i e local or urban energy policies in achieving environmentally benign developments for modern cities urban sustainability is placed in the context of the debate on global sustainable development a wide array of policy initiatives is discussed and evaluated ranging from market based energy policies to technological innovation policies for the energy sector a theoretical framework for technology adoption processes is developed and empirically tested the main question addressed is which are the critical success factors for successful urban energy policies this question is also dealt with in a meta analytic context by assessing and comparing the performance of energy policies in various european cities with a particular view to renewable energy

Governing Sustainable Cities 2013-06-17 urban governance and sustainability are rapidly becoming key issues around the world

currently three billion people half the population of the planet live in cities and by 2050 a full two thirds of the world s population will be housed in ever larger and increasingly densely populated urban areas the economic social and environmental challenges posed by urbanization on such a large scale and at such a rapid pace are staggering for local regional and national governments working towards sustainability solutions to the myriad problems plaguing the quest for sustainability at the city level are equally as diverse and complex but are rooted in the assumptions of the sustainability agenda developed at the rio earth summit and embodied in local agenda action 21 these assumptions state that good governance is a necessary precondition for the achievement of sustainable development particularly at the local level and that the mobilization of local communities is an essential part of this process yet until now these assumptions which have guided the policies and programmes of over 6000 local authorities around the world have never been seriously tested drawing on three years of field research in 40 european towns and cities governing for sustainable cities is the first book to examine empirically the processes of urban governance in sustainable development looking at a host of core issues including institutional and social capacity institutional design social equity politics partnerships and cooperation and creative policy making the authors draw compelling conclusions and offer strong guidance this book is essential reading for policy makers politicians activists and ngos planners researchers and academics whether in europe north america australasia or transitional and developing countries concerned with advancing sustainability in our rapidly urbanizing world

Sustainable Urbanism in Digital Transitions 2019-08-06 this book examines how contemporary urbanism is influenced by digital and low carbon transitions from its infancy at the scale of individual buildings a focus on green agenda energy and resource efficiency has fostered research and policies for low carbon cities eco cities and increasingly intelligent and smarter urban systems cities around the world are getting smarter as more advanced technology is integrated into urban planning and design people are relying more on digital and information and communication technology ict in their daily lives while cities are adopting more digital technology to monitor and gather information about people and their environment this leads to big data collection which is used to inform governance and improve urban performance these transformations however raise critical questions including whether emerging smart sustainable cities are too technocratic but also with regard to citizen involvement this brief addresses these important contemporary concerns through a review of literature and existing urban strategies it should be of interest to everyone involved in advancing sustainable cities and smart cities it should also be a relevant read for students and researchers in this area

Dimensions of the Sustainable City 2009-12-17 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 Lifelong Learning and Education in Healthy and Sustainable Cities 2017-11-27 this book presents essential insights into lifelong learning and education in healthy and sustainable cities providing a basis for strategies to help achieve the 2030 agenda sustainable development and health promotion goals the interface between environment health and lifelong learning is fundamental to attaining these goals and as such the book gathers interdisciplinary reflections from researchers educators and other experts concerning the links between environmental quality human health human education and well being and addressing inequality unplanned urbanization migration lifestyles and consumption and production patterns topics include urban planning to address inequality in health and urban poverty healthy cities and healthy environments governance for sustainable development social determinants of health oriented on sustainable development goals education and lifelong learning for sustainability energy security access and efficiency sustainable cities buildings and infrastructure

The Citizens at Risk 2010-09-23 local environments such as cities and neighbourhoods are becoming a focal point for those concerned with environmental justice and sustainability the citizens at risk takes up this emerging agenda and analyses the key issues in a refreshingly simple yet sophisticated style taking a comparative look at cities in africa asia and latin america the book examines the changing nature of urban environmental risks the rules governing the distribution of such risks and their differential impact how the risks arise and who is responsible the authors clearly describe the most pressing urban environmental challenges such as improving health conditions in deprived urban settlements ensuring sustainable urban development in a globalizing world and achieving environmental justice along with the greening of development they argue that current debates on sustainable development fail to come to terms with these challenges and call for a more politically and ethically explicit approach for policy makers students academics activists or concerned general readers this book applies a wealth of empirical analysis and theoretical insight to the interaction of citizens their cities and their environment

The Sustainable City IX 2014-09-23 containing the proceedings of the 9th international conference on urban regeneration and sustainability this book addresses the multi disciplinary 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 still 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 waterfront development case studies 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

Sustainable Cities 1992 the idea of sustainability has become central to international dialogues on development this study focuses on cities and examines the implications that urbanization has for the future of the environment the contributors explain how the development of infrastructure and industries poses serious threats to the environment through the pollution of air water and soil many urban governments are actively initiating programs to mitigate harmful environmental impacts and the discussions show that some forms of urban settlement are more benign than others to assess whether cities can be sustainable in environmental terms this book brings together comprehensive studies of the urban experience in nine major countries and regions the united states canada western europe eastern europe japan southeast asia china and hong kong africa and latin america the chapters examine the meaning of sustainable development in a specific region the growth and structure of urban systems the effects of possible climatic changes on urban areas the political environment within which cities operate and the pressures caused by intense urban use of services and natural resources chapters conclude with policy proposals for increasing sustainability

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