2. Tokyo's Urban Growth, Urban Form and Sustainability

Junichiro Okata and Akito Murayama

2.1 Introduction

Tokyo, the largest mega-region in the world so far with 35 million inhabitants in 2007, has experienced a rapid growth in the twentieth century with various issues associated with urban form and urban environment. Some issues were solved and others remain to be solved. If Tokyo is evaluated as one of the most efficient, productive and sustainable mega-regions in the world, it is the result of rapid urban growth and development in the twentieth century. After that, Tokyo has been facing new challenges as it left the phase of rapid growth and entered the phase of no- or low-growth, depopulating and aging society. In this respect, Tokyo is a leading or an instructive mega-region in the world. At the same time, Tokyo must take part in the global effort to achieve sustainability. This chapter focuses on the history of Tokyo's urban growth, the diversity of urban form issues in Tokyo, some previous successes in solving urban environmental problems and some new challenges facing efforts to enhance urban sustainability.

In this chapter, the term "Tokyo" refers to Tokyo region comprised of Tokyo Metropolitan Government (TMG) jurisdiction and the surrounding three prefectures of Kanagawa, Chiba and Saitama, covering 13,551 km² and accommodating 35 million inhabitants. As of January 2008, there were 23 wards, 26 cities, five towns and eight villages in TMG jurisdiction, and there were total of four designated cities, 91 cities, 59 towns and five villages in the three prefectures. "Central Tokyo" in this chapter roughly refers to central three wards of Chuo, Chiyoda and Minato, and inner five wards of Shibuya, Shinjuku, Toshima, Bunkyo and Taito. The 23-ward area is the former city of Tokyo before it was abolished in 1943, that now comprises the central city area of the current Tokyo metropolitan region, with a population of about 8.7 million.

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John Brotchie, Peter Newton, Peter Hall, John Dickey

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Human-Centered Urban Planning and Design in China: Volume II Weifeng Li, Linggian Hu, Jason Cao, 2021-11-15 This book provides insights and discusses human centered urban design and placemaking human activities and urban mobility in China It argues that sustainable urban design and mobility should be people centered and concerned about place making in the new era of Chinese urbanization Successful urban design and placemaking should adopt interdisciplinary approaches to planning and designing space and place A core vision is the delivery of urban spaces that can cater to the needs of an increasingly diverse crowd of urban dwellers calling cities home The book prompts Chinese urbanists to reconsider and explore a sustainable and people first planning and design approach with Chinese characteristics The breadth and depth of this book is of particular interest to those faculty members students practitioners and the general public who are interested in subjects like urban design transport planning mobility analysis and planning housing and community development infrastructure planning environmental planning social equity and beyond This book discussing human centered urban design and placemaking human activities and urban mobility is part of a 2 volume set Volume I deals with human centered urban planning and development rural planning and urban rural coordination in China Megacities Andre Sorensen, Junichiro Okata, 2010-11-18 For the first time in human history more than half the world's population is urban A fundamental aspect of this transformation has been the emergence of giant cities or megacities that present major new challenges This book examines how issues of megacity development urban form sustainability and unsustainability are conceived how governance processes are influenced by these ideas and how these processes have in turn influenced outcomes on the ground in some cases in transformative ways Through 15 in depth case studies by prominent researchers from around the world this book examines the major challenges facing megacities today. The studies are organized around a shared set of concerns and questions about issues of sustainability land development urban governance and urban form Some of the main questions addressed are What are the most pressing issues of sustainability and urban form in each megacity How are major issues of sustainability understood and framed by policymakers Is urban form considered a significant component of sustainability issues in public debates and public policy Who are the key actors framing urban sustainability challenges and shaping urban change How is unsustainability risk or disaster imagined and how are those concerns reflected in policy approaches What has been achieved so far and what challenges remain The publication of this book is a step toward answering these and other crucial questions *Remote Sensing Handbook, Volume VI* Prasad S. Thenkabail, 2024-11-29 Volume VI of the Six Volume Remote Sensing Handbook Second Edition is focused on the use of remote sensing in the assessment and monitoring of droughts dry lands biomass burning disasters such as volcanoes and fires and urban studies and nightlights It discusses land degradation assessment and monitoring greenhouse gas GHG emissions and pollution from nightlights in megacities Chapters include remote sensing of agricultural droughts including US

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change and increasing demands for sustainable development Global environmental change is forcing cities to think about their possible futures Common approaches to city governance from top down planning to participation are no longer Growing Green Infrastructure in Contemporary Asian Cities Ian Mell,2024-08-27 Growing Green Infrastructure in Contemporary Asian Cities examines to what extent green infrastructure GI is being implemented in East and Southeast Asian cities The book reflects upon the integration of contemporary approaches to landscape planning alongside traditional forms of green space design and cultural understandings of the landscape in China Hong Kong Japan Singapore and South Korea Working from a multi locational perspective the book illustrates how political socio cultural economic and ecological factors influence the delivery of GI and the consequences of these decisions The book provides a set of best practice recommendations for the design development and management of greener urban areas It both explains how GI is being utilised in East and Southeast Asia to address climate change promote economic prosperity and support the development of more livable places and identifies future trends in its use It is a key resource for any practitioners students and academics working in landscape planning and green infrastructure in an Asian context **Urbanization and Its** Impact on Socio-Economic Growth in Developing Regions Benna, Umar, Benna, Indo, 2017-06-19 The social and economic systems of any country are influenced by a range of factors As the global population grows in developing nations it has become essential to examine the effects of urbanization Urbanization and Its Impact on Socio Economic Growth in Developing Regions is a pivotal reference source for the latest research findings on the role of urban growth on the socio economic infrastructures in developing regions Featuring extensive coverage on relevant areas such as job creation sustainability and transportation planning this publication is an ideal resource for city development planners decision makers researchers academics and students interested in emerging perspectives on socio economic development Regions of Southeast Asia Ira M. Robinson, 2011-11-01 A distinguishing feature of recent urbanization in the ASEAN countries of Thailand Malaysia the Philippines Singapore and Indonesia is the outward extension of their mega cities Bangkok Jakarta Manila Singapore and Kuala Lumpur beyond the metropolitan borders resulting in the establishment of new towns industrial estates and housing projects in previously rural areas This process has both positive and negative effects On one side household incomes and employment opportunities are increasing but on the other the growth often causes serious problems in terms of environmental deterioration conflicting land uses and inadequate housing and service provisions Mega Urban Regions of Southeast Asia is the first comprehensive work on the subject of ASEAN mega urban regions The contributors review T G McGee's original idea of desakota zones and offer arguments both for and against this concept making a significant contribution to our understanding of the true face of ASEAN cities The book brings together authors from around the world and will be of interest to a wide audience including demographers urban planners geographers sociologists economists civil servants and development consultants Sustainability And Cities: Concept And Assessment

Giok Ling Ooi, 2005-08-15 This important book addresses issues of development and its environmental sustainability for the fastest growing areas in Asia its cities Recognizing sustainability with respect to the environment and its exploitation has yet to make its impact on development plans in Asia The problem is due to the lack of cross country studies which provide a fair understanding of the different levels of development as well as the wide variety of development strategies adopted by different countries The relatively ineffective implementation of environmental assessment has not done much to reduce the damage to or depletion of the natural resource base Sustainability and Cities Concept and Assessment aims to bridge this gap by taking a sober look at the translation of concepts of environmental sustainability into terms that are meaningful and applicable for cities particularly those in fast developing countries like China Cities around the World Iing Luo, 2019-07-10 This two volume set offers a comprehensive overview of major challenges faced by cities worldwide in the 21st century and how cities in different geographic economic and political conditions are finding solutions to them This two volume encyclopedia examines ten critical issues that face cities across the globe today environmental and societal struggles that affect the daily lives of city dwellers Readers will gain a better understanding of our global neighbors and will be able to use this book in order to compare and contrast different approaches to critical issues in our world Volume One examines employment and jobs energy and sustainability green spaces housing and infrastructure and migration and demographic changes Volume Two discusses pollution schools traffic and transportation violence corruption and organized crime and waste management Each issue begins with an introduction providing an overview of the issue from a global perspective Following the introduction are ten alphabetically arranged world city profiles of cities that are struggling with the issue and cities that have found innovative solutions to deal with the crisis The profiles explain how the problem came to be consequences inhabitants face such as compromised health limited access to education and high taxes with low wages and failed and successful initiatives taken by city management Remote Sensing of Water Resources, Disasters, and Urban Studies Ph.D., Prasad S. Thenkabail, 2015-10-02 This book is the most comprehensive documentation of the scientific and methodological advances that have taken place in understanding remote sensing data methods and applications over last 50 years In a very practical way it demonstrates the experience utility methods and models used in studying a wide array of water applications There are more than 100 leading global experts in the field contributing to this work OECD Territorial *Reviews: Japan 2016* OECD, 2016-04-11 Japan is embarked on a demographic transition without precedent in human history the population is both declining and ageing rapidly This raises important questions about the country's future economic geography as public policies will need both to respond to these shifts and also to shape them Managing Urban Futures Marco Keiner, 2016-12-05 Urbanization is one of the most powerful forces influencing global sustainability. It is dominated by three factors population growth rural urban migration and subsequent urban expansion Perhaps nowhere are these factors more dominant than in developing countries This volume brings together leading experts including Alan Gilbert John

Friedmann Saskia Sassen and Janice Perlman to explore the conflicting challenges of rapid urbanization in developing countries While all have to contend with key issues such as social segregation poverty and loss of governability the ongoing forces of urban growth vary from country to country By comparing the challenges of urbanization in Africa Latin America Asia and the Pacific this book puts forward a new way of thinking about mega and million cities in developing countries one that promotes their vital function in society as engines of ideas technologies societal change democratic transformation and loci of political will to build a new regime of global sustainability World Cities and Urban Form Mike Jenks, Daniel Kozak, Pattaranan Takkanon, 2013-12-02 This book presents new research and theory at the regional scale showing the forms metropolitan regions might take to achieve sustainability At the city scale the book presents case studies based on the latest research and practice from Europe Asia and North America showing how both planning and flagship design can propel cities into world class status and also improve sustainability The contributors explore the tension between polycentric and potentially sustainable development and urban fragmentation in a physical context but also in a wider cultural social and East West Perspectives on 21st Century Urban Development John Brotchie, Peter Newton, Peter economic context Hall, John Dickey, 2019-01-15 Published in 1999 Analyzing and chronicling the continued development of key information communication and fast transport networks at a global and regional level this book looks at the transition to an information based economy and its urban impacts at a global regional and city level The book outlines the change by defining it as the third great societal transition in the history of human settlement and points to key factors that have fuelled progress These include the growth of global telecommunications and fast transport networks the coming together of information and communication technologies and their links to transport and land use the shift to information and knowledge as a resource base for new industries the increasing movement of people and information the emergence of cities as economic entities network nodes and centres for generating exchanging and processing information and most significantly the competition among cities for these new key elements of of the urban economy Urban Development in India Pablo Shiladitya Bose, 2015-03-05 Indian diaspora has had a complex and multifaceted role in catalyzing justifying and promoting a transformed urban landscape in India Focussing on Kolkata Calcutta this book analyses the changing landscapes over the past two decades of one of the world's most fascinating and iconic cities Previously better known due to its post Independence decline into overcrowded poverty pollution and despair in recent years it has experience a revitalization that echoes India's renaissance as a whole in the new millennium This book weaves together narratives of migration and diasporas postmodern developmentalism and neoliberal urbanism and identity and belonging in the Global South It examines the rise of middle class environmental initiatives and Kolkata's attempts to reclaim its earlier global status It suggests that a form of global gentrification is taking place through which people and place are being fundamentally restructured Based on a decade s worth of field research and investigation in multiple sites metropolitan centers connected by long histories of

empire migration economy and culture it employs a multi methods approach and uses ethnographic semi structured interviews as well as archival research for much of the empirical data collected Addressing urban change and policies as well as spatial and discoursive transformations that are occurring in India it will be of interest to researchers in the field of urban geography urban and regional planning environmental studies diaspora studies and South Asian studies Ecosystems Robert A. Francis, Michael A. Chadwick, 2013-03-12 With over half of the global human population living in urban regions urban ecosystems may now represent the contemporary and future human environment Consisting of green space and the built environment they harbour a wide range of species yet are not well understood This book aims to review what is currently known about urban ecosystems in a short and approachable text that will serve as a key resource for teaching and learning related to the urban environment It covers both physical and biotic components of urban ecosystems key ecological processes and the management of ecological resources including biodiversity conservation All chapters incorporate case studies boxes and questions for stimulating discussions in the learning environment <u>Urban Economics</u> Franklin Obeng-Odoom, 2016-08-15 Neoclassical economics the intellectual bedrock of modern capitalism faces growing criticisms as many of its key assumptions and policy prescriptions are systematically challenged Yet there remains one field of economics where these limitations continue virtually unchallenged the study of cities and regions in built environment economics In this book Franklin Obeng Odoom draws on institutional Georgist and Marxist economics to clearly but comprehensively show what the key issues are today in thinking about urban economics In doing so he demonstrates the widespread tensions and contradictions in the status quo showing how to reconstruct urban economics in order to create a more just society and environment <u>Planning Sustainable Cities</u> Un-Habitat, 2016-05-13 Current urban planning systems are not equipped to deal with the major urban challenges of the twenty first century including effects of climate change resource depletion and economic instability plus continued rapid urbanization with its negative consequences such as poverty slums and urban informality These planning systems have also to a large extent failed to meaningfully involve and accommodate the ways of life of communities and other stakeholders in the planning of urban areas thus contributing to the problems of spatial marginalization and exclusion It is clear that urban planning needs to be reconsidered and revitalized for a sustainable urban future Planning Sustainable Cities reviews the major challenges currently facing cities and towns all over the world the emergence and spread of modern urban planning and the effectiveness of current approaches More importantly it identifies innovative urban planning approaches and practices that are more responsive to current and future challenges of urbanization The Global Report on Human Settlements is the most authoritative and up to date global assessment of human settlements conditions and trends It is an essential reference for researchers academics public authorities and civil society organizations all over the world Preceding issues of the report have addressed such topics as Cities in a Globalizing World The Challenge of Slums Financing Urban Shelter and Enhancing Urban Safety and Security

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