

SYSTEMS AND INDUSTRIAL ENGINEERING SERIES

Sustainable Urban Logistics

Planning and Evaluation

Jesus Gonzalez-Feliu



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Urban Logistics Iste Iuml Dela

**Michael Browne, Sönke Behrends, Johan
Woxenius, Genevieve Giuliano, José
Holguin-Veras**

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Implementation of Urban Logistics Systems Raphael Preindl, 2022-02-14 Concept components summarized under the umbrella term urban logistics has become a strategic priority for many public and private players in recent years. However, many urban logistics undertakings fail to be put into practice and are eventually terminated for various reasons which can be considered implementation barriers that exist in practice. While research on urban logistics is proliferating, the implementation of urban logistics systems has been insufficiently addressed. Thus, the dissertation is concerned with the implementation of urban logistics systems. Raphael Preindl investigates the implementation process from a holistic perspective and follows the design science research methodology based on an eclectic theoretical approach. Next to a contingency analysis of the conceptual design of urban logistics systems and the identification of success factors, the study develops an adaptable implementation concept that is specifically tailored to the context of urban logistics and thereby clearly goes beyond a purely operational approach.

Sustainable Urban Logistics Jesus Gonzalez-Feliu, 2018 Urban Logistics Michael Browne, Sönke Behrends, Johan Woxenius, Genevieve Giuliano, José Holguín-Veras, 2018-12-03 Approximately 80 per cent of European and American citizens live in an urban environment. Due to their large populations and extensive commercial establishments, urban areas require large quantities of goods and services for commercial and domestic use. This results in increasing levels of demand for freight transport services. Freight transport in towns and cities is a major contributor to environmental impacts, particularly to local air pollution and noise. Urban Logistics addresses public policy makers, freight transport companies and receivers of supplies, providing them with the information and guidance to affect change in the logistics of the city. Urban Logistics is written by an outstanding team of international editors combining their expertise and using their research from leading business schools in Sweden and the US. There are also valuable contributions from academics and industry experts from companies and universities from all over the world. The book includes clear examples of initiatives that work and business case developments as well as toolkits for policymakers and managers who are devising new initiatives. There is an in-depth examination of different aspects of urban logistics such as retail logistics for cities, urban food supply chains, services and the special logistics requirements involved in construction waste management and e-commerce and home delivery. There is also a focus on networks and partnerships and an analysis of innovation as a new constant.

Sustainable Urban Logistics: Concepts, Methods and Information Systems Jesus Gonzalez-Feliu, Frédéric Semet, Jean-Louis Routhier, 2013-09-07 Since the 1990s, researchers, practitioners and public administrations have given more thought to urban logistics. However, their interests and goals are not the same and several approaches do not produce efficient logistics systems as a result. This book aims to provide both a conceptual framework for urban logistics planning and management and to create a basis for deploying solutions that aim to reduce the main nuisances related to urban goods. The proposed book is divided into two parts. The first proposes a set of methodological chapters written by key authors which aim to

support decision makers in their current choices related to urban logistics In addition to public authorities aims and goals the book highlights the importance of private actors and shows how supply chain management can deal with the problems of the last urban mile and its integration in global logistics chains The second presents several applied research works that deal with current planning and practice issues in urban logistics such as the role of city planning the place of night deliveries in carrier organization the limits of logistics pooling and the real estate market among others The book was written by key authors all having considerable research experience and recognised as experts in their respective fields Each chapter presents methods and results of research works written for a broad audience and more precisely directed to both academics and practitioners

The Future of Urban Logistics Gabriel Socha, 2019-05-17 Seminar paper from the year 2019 in the subject Business economics Supply Production Logistics grade 1 0 language English abstract This paper deals with a selection of the most important future oriented questions in the field of urban logistics It analyzes the relevance of urban logistics examines transportation types of the future and discusses the impact of demographic change and labor shortage on the logistics market Further the concept Post 4 0 is critically questioned and it is reflected to what extent the fields procurement and production logistics are influenced by the global trends Lastly a conclusion summarizes the most important findings and introduces additional research fields Urban logistics is a topic of increasing interest to both research and practice Reasons for this are diverse Population growth in urban areas is expected to continue meaning that by 2030 79% of the German population will live in these areas This in turn has an impact on the already growing e commerce which is a major driver for parcel delivery As a result parcel volume is expected to reach 5 billion pieces per year by 2026 equaling a growth of 100% since 2016 With a growing volume not only the complexity of routes and business scalability increases but also environmental problems which are already the focus of various stakeholders anyway Thus logistics companies are required to develop innovative solutions such as those derived from the possibilities of digitalization in order to meet the increasing and changing demands of stakeholders

City Logistics 3 Eiichi Taniguchi, Russell G. Thompson, 2018-05-24 This volume of three books presents recent advances in modelling planning and evaluating city logistics for sustainable and liveable cities based on the application of ICT Information and Communication Technology and ITS Intelligent Transport Systems It highlights modelling the behaviour of stakeholders who are involved in city logistics as well as planning and managing policy measures of city logistics including cooperative freight transport systems in public private partnerships Case studies of implementing and evaluating city logistics measures in terms of economic social and environmental benefits from major cities around the world are also given

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City Logistics Eiichi Taniguchi,Russell G. Thompson,2018 **Logistics and Transport Modeling in Urban Goods Movement** Gonzalez-Feliu, Jesus,2019-02-01 Because it deals with sustainably supplying cities and reducing congestion and pollution related to goods transport in urban areas city logistics is an important field in transportation sciences These logistics systems need to be sustainable and reliable to ensure the continued flow of goods Logistics and Transport Modeling in Urban Goods Movement is a pivotal reference source that provides vital research on the main approaches and techniques used in urban goods transport modelling while addressing planning and management issues Highlighting topics such as urban logistics vehicle routing and greenhouse emissions this book is ideally designed for civil transport engineers planners transport economists geographers computer scientists practitioners professionals researchers and students seeking current research on urban goods modelling **TA-Q-BIN** Qizhang Liu,Mark Goh,2015-10-16 This book reveals the secrets of Yamato Transport s success in maintaining and extending its leadership in Japan s domestic parcel delivery market It presents six cases that illustrate how Yamato s flagship service TA Q BIN has evolved since the 1970s to the benefit of consumers particularly urban dwellers and how TA Q BIN has become an integral part of Japanese daily life Each of the six unique cases serves as an independent teaching case for undergraduate and graduate students describing the particular service design operations management innovation supplier management and social responsibility within the context of an Asian last mile logistics service provider The book also includes insightful presentations of the challenges facing supply chain and logistics service providers in Asia and their innovative responses to these challenges using real world cases Besides featuring interviews with Yamato s key stakeholders and their strategic clients Japan based and other Asia Pacific Yamato operational centers make up the field method included in this book while secondary data is drawn from trade and academic domains Some of the cases are written in a didactic fashion with suitable stopping points for students to pause and deliberate over the managerial issues confronting the decisions that Yamato makes during the course of its business and operational strategies The results are particularly useful to readers interested in how operations and logistics decision making are practiced in a homogeneous Asian context and in an urban environment This book is essential reading for undergraduate and MBA students as well as practitioners in industry **The Urban Logistic Network** Giovanni Favero,Michael-W. Serruys,Miki Sugiura,2019-11-20 This edited collection examines the formation of urban networks and role of gateways in Europe from the Middle Ages to the modern world In the past gateway cities were merely perceived as transport points only relevant to maritime shipping Today they are seen as the organic entities coordinating the allocation of resources and supporting the growth efficiency and sustainability of logistics including both the transport and distribution of goods and

services Using different historical case studies the authors consider how logistics shaped urban networks and were shaped by them

Theories and Practices for Sustainable Urban Logistics Polat, Olcay, Gülhan, Görkem, 2024-04-29 Cities are grappling with unprecedented challenges and the urgency to transform urban logistics into sustainable equitable and economically viable systems has never been more pressing The ripple effects of urbanization on logistics demand careful examination necessitating a comprehensive resource that sheds light on the dynamic complexities but identifies actionable strategies for a sustainable future Theories and Practices for Sustainable Urban Logistics is a beacon for academic scholars seeking to untangle the intricate threads of urban logistics in the present tense With a laser focus on theory policy and real world applications this publication aims to be the solution for understanding and addressing the evolving demands of urban logistics By delving into historical evolution exploring case studies and offering practical insights the book equips readers with the knowledge needed to navigate the challenges and seize the opportunities of sustainable urban logistics

The Routledge Handbook of Urban Logistics Jason Monios, Lucy Budd, Stephen Ison, 2023-06-23 The Routledge Handbook of Urban Logistics offers a state of the art comprehensive overview of the discipline of urban and city logistics The COVID 19 pandemic and the rise in internet shopping in particular have placed new demands on urban logistics which require innovative technological and policy responses Similarly the necessity for sustainable urban logistics offers both a challenge and opportunity for development and seeks to address traffic congestion local air quality traffic related degradation the use of energy safety aspects and noise Featuring contributions from world leading international scholars the chapters examine concepts issues and ideas across five topic areas that reflect the increasingly diverse nature of current research and thinking in urban logistics transport modes urban logistics sectors technical analysis policy and sustainability Each chapter provides an overview of current knowledge identifies issues and discusses the relevant debates in urban logistics and the future research agenda This handbook offers a single repository on the current state of knowledge written from a practical perspective utilising theory that is applied and developed using real work examples It is an essential reference for researchers academics and students working in all areas of urban logistics from policy and planning to technology and sustainability in addition to industry practitioners looking to develop their professional knowledge

Reliability Optimization of Urban Logistics Systems Hao Zhang, 2022-03-21 This book studies the urban logistics system from the perspective of reliability based on the theory of urban logistics and system reliability with the research of urban logistics system reliability as the main line with matter element analysis and ant colony algorithm as the main research tools On this basis this book closely focuses on the connotation influencing factors measurement optimization and other issues of the reliability of urban logistics systems By analyzing the influencing factors and constituent contents of the reliability of urban logistics system the reliability measurement is researched and the reliability optimization model of urban logistics system is established which is suitable for popular science reading or in depth study by readers with a certain foundation

Customer Acceptance of Urban Logistics Delivery Concepts Marc-Oliver Sonneberg, Oliver Werth, Human Kohzadi, Marvin Kraft, Bjarne Neels, Michael H. Breitner, 2019

City Logistics Eiichi Taniguchi, Russell G. Thompson, 2014-11-21 City Logistics Mapping The Future examines the key concepts of city logistics along with the associated implementation issues methodologies and policy measures Chronicling the growth of city logistics as a discipline and how planning and policy have improved practice over the last ten years it details the technologies policies and plans that can reduce traffic congestion environmental impact and the cost of logistics activities in urban freight transportation systems The book provides a comprehensive study of the modelling planning and evaluation of urban freight transport It includes case studies from the US UK Netherlands Japan South Africa and Australia that illustrate the experiences of cities that have already implemented city logistics including the methods used to solve the complex issues relating to urban freight transport Presents procedures for evaluating city logistics policy measures Provides an overview of intelligent transport systems in city logistics Highlights the essential features of joint delivery systems and off hour delivery programs Supplies an overview of access restrictions and regulations related to city logistics in urban areas Expert contributors from major cities around the world discuss regional developments share success stories and personal experiences and highlight emerging trends in urban logistics Coverage includes mathematical modeling public policy planning and implementation logistics in urban planning designs and urban distribution centers The book examines the impact of recent advancements in technology on city logistics including information and communication technologies intelligent transport systems and GPS It also considers future directions in city logistics including humanitarian logistics alternative transport modes in co modality last kilometer deliveries partnerships between public and private sectors alternative fuel vehicles and emerging technologies such as 3D printing

Urban Logistics Loïc Delaître, 2017-01-10 Urban logistics is a complex field that can be difficult to understand Even though the issues involved have been well known for several years industrial and regulatory contexts have evolved thereby leading to the emergence of new challenges The authors of this book describe these new challenges providing an educational tool for engineering and management schools for an efficient implementation of urban logistics It contains the knowledge and experience gathered by experts in the field over the last 15 years Since this is a relatively recent topic of interest for the scientific community and since an impressive number of experiments have been launched by private parties this book provides a review of urban logistics browsing the different fields developed presenting the possible actions to be implemented to improve the system and exploring the methods already implemented while using concrete examples and presenting new advances in the field

Logistics In The Cities' Development Strategies Maja Kiba-Janiak, 2019-06-04 City logistics plays an increasingly important role in Europe Among the many affecting factors is the increasing urban population which in 2015 accounted for two thirds of the European Union population Eurostat 2018 This situation causes increased personal and commodity traffic in cities and contributes to such problems as congestion lowering the level of road

safety and environmental pollution Problems resulting from the increased personal and commodity traffic require taking strategic decisions by local authorities In recent years within the framework of various European projects the assumptions have been developed for urban authorities to draw up sustainable urban mobility plans SUMP sustainable urban transport plans SUTP and sustainable urban logistics plans SULP Fossheim Andersen 2017 pp 9 52 Nevertheless in order to effectively implement transport plans the city requires a logistics strategy that would allow these plans to be adapted to the city s vision and strategic goals This book presents both theoretical framework as well as practical tools and methods for a city logistics strategy development The obtained research results conducted in 15 EU capital cities complement the existing knowledge on the essence of logistics in city development strategies and thus can also provide valuable information for local authorities researchers or politician

Urban Transportation and Logistics Eiichi Taniguchi, Tien Fang Fwa, Russell G. Thompson, 2013-12-13 Although society has become increasingly dependent on the timely operation of logistics systems we still face many problems regarding efficiency the environment energy consumption and safety in urban transport and logistics under normal cases and in disasters As such understanding how to address these challenges has become essential for creating better urban planning and policy implementation Presenting the best practices of leading experts from around the world Urban Transportation and Logistics Health Safety and Security Concerns provides cutting edge concepts and a vision for urban transport and logistics relating to human security Its comprehensive coverage supplies the foundation for examining transport and logistics systems in urban areas from the viewpoint of safety and security considerations on human life Topics covered include Hazardous material transport Healthy transport Road safety Network design for freight transport and supply chain Transport and logistics in Asian cities Vehicle routing and scheduling with uncertainty Urban transport and logistics in natural disasters Future perspectives on urban freight transport The book addresses Information and Communication Technologies ICT and Intelligent Transport System ITS applications within urban logistics It considers supply chains road safety in hazardous material transport and logistics and transport design in mixed traffic areas It also introduces the notion of the megalopolis and the need for improved planning relative to human usage freight transportation and city logistic planning This book provides numerous examples and case studies of real world scenarios from around the world making it useful for both practitioners and researchers involved in urban transport and logistics planning

Unveiling the Energy of Verbal Artistry: An Mental Sojourn through **Urban Logistics Iste Iuml Dela**

In a global inundated with screens and the cacophony of instant interaction, the profound power and psychological resonance of verbal artistry often disappear into obscurity, eclipsed by the regular assault of noise and distractions. Yet, nestled within the musical pages of **Urban Logistics Iste Iuml Dela**, a captivating function of fictional brilliance that impulses with raw emotions, lies an unforgettable journey waiting to be embarked upon. Composed by a virtuoso wordsmith, this interesting opus guides readers on a mental odyssey, gently revealing the latent potential and profound impact stuck within the complicated internet of language. Within the heart-wrenching expanse with this evocative evaluation, we shall embark upon an introspective exploration of the book is main themes, dissect their charming writing design, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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