

Klaus Rennings · Olav Hohmeyer · Richard L. Ottinger (Eds.)

# Social Costs and Sustainable Mobility

Strategies and Experiences in Europe and the United States



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# Social Costs And Sustainable Mobility

**George J. Dimitrakopoulos, Lorna  
Uden, Iraklis Varlamis**



## **Social Costs And Sustainable Mobility:**

*Social Costs and Sustainable Mobility* Klaus Rennings, Olav Hohmeyer, Richard L. Ottinger, 2012-12-06 Fair and efficient pricing has become increasingly important in international environmental and transport policy. Thus the valuation and internalization of social costs is now a crucial element within strategies towards sustainable mobility. The book provides methods and results from major European and American studies evaluating both social costs of transport and first experiences with their internalization in different contexts: infrastructure planning, urban road pricing and highway tolling. Additionally, complementary non-monetary instruments for a transition towards sustainable mobility are presented and discussed.

*Social Costs and Sustainable Mobility* Klaus Rennings, Olav Hohmeyer, Richard L. Ottinger, 1999-11-17 *An Introduction to Sustainable Transportation* Preston L. Schiller, Jeffrey R. Kenworthy, 2010-08-12 Transportation plays a substantial role in the modern world; it provides tremendous benefits to society but it also imposes significant economic, social and environmental costs. Sustainable transport planning requires integrating environmental, social and economic factors in order to develop optimal solutions to our many pressing issues, especially carbon emissions and climate change. This essential multi-authored work reflects a new sustainable transportation planning paradigm. It explores the concepts of sustainable development and sustainable transportation, describes practical techniques for comprehensive evaluation, provides tools for multi-modal transport planning and presents innovative mobility management solutions to transportation problems. Students of various disciplines, planners, policymakers and concerned citizens will find many of its provocative ideas and approaches of considerable value as they engage in the processes of understanding and changing transportation towards greater sustainability. This text reflects a fundamental change in transportation decision making. It focuses on accessibility rather than mobility, emphasizes the need to expand the range of options and impacts considered in analysis and provides practical tools to allow planners, policy makers and the general public to determine the best solution to the transportation problems facing a community. The book starts by placing transportation within the broader sustainability discussion, emphasising a comprehensive approach to sustainability planning and introducing the notion of regenerative transportation. In sections on policymaking and planning, the book examines how decisions are currently and how they should be made, explaining the complex and often misunderstood area of public participation. The authors explain demand management as applied to transportation and present lessons from other public arenas and areas of application, especially in urban/suburban areas. The text takes readers through each and every mode of transport, beginning with human-powered modes and ending in motorized modes including marine and air transport. The modes are analyzed separately and in comparison with others according to several criteria: Capacity, utility, functionality, considerations, infrastructure, demands, resource consumption, land use, considerations, pollution and costs. In ways that non-technically trained readers as well as planning students/professionals can find useful, the book includes guidance on how to optimize transportation systems balancing economic, social and

environmental objectives while creating just robust and diverse rather than one size fits all solutions The modes are grouped and compared within their respective contexts and there is vital discussion and differentiation between passenger and freight goods transport The final section develops a comprehensive summary of the previous chapters and develops arguments for sustainable transportation policymaking and integrated planning providing international examples and case studies and extracting from them general applications for integrated sustainable transportation Featuring extensive international examples and case studies textboxes graphics recommended reading and end of chapter questions the authors draw on considerable teaching and researching experience to present an essential ground breaking and authoritative text on sustainable transport

*Sustainable Transportation and Smart Logistics* Javier Faulin, Scott Grasman, Angel Juan, Patrick Hirsch, 2018-11-13 Sustainable Transportation and Smart Logistics Decision Making Models and Solutions provides deterministic and probabilistic models for transportation logistics problem solving and decision making The book presents an overview of the intersections between sustainability transportation and logistics and delves into the current problems associated with the implementation of sustainable transportation and smart logistics in urban settings It also offers models for addressing complex structural problems and procedures for estimating transportation externalities such as environmental and social impacts both in industrial and government arenas as well as decision making models from operational tactical and strategic management perspectives Sustainable Transportation and Smart Logistics also covers best practices for practical corporate policy implementation making it a comprehensive and vital resource for researchers graduate students practitioners and policy makers in transportation logistics urban planning economics engineering and environmental science Examines various modes of transportation Includes mathematical models for decision making in a wide variety of situations Presents public transportation and smart cities use cases

Modeling and Simulation of Intelligent Transportation Systems Wael A. Altabey, Mohammad Noori, Ahmed Silik, Marco Domaneschi, Weixing Hong, 2024-10-23 As transport networks become more congested there is a growing need to adopt policies that manage demand and make full use of existing assets Advances in information technology are now such that intelligent transportation systems ITS offer real potential to meet this challenge by monitoring current conditions predicting what might happen in the future and providing the means to manage transport proactively and on an area wide basis Modeling and Simulation of Intelligent Transportation Systems provides engineers professionals and researchers an intuitive appreciation for ITS theory related sensor technologies and other practical applications including traffic management safety design optimization and sustainability Provides the theory and practical applications of Intelligent Transport Theory which will be helpful as highway construction recedes as a sustainable long term solution Includes several case studies that illustrate the concepts presented throughout

The Future of Intelligent Transport Systems George J. Dimitrakopoulos, Lorna Uden, Iraklis Varlamis, 2020-02-19 The Future of Intelligent Transport Systems considers ITS from three perspectives users business models and regulation policy Topics cover in vehicle

applications such as autonomous driving vehicle to vehicle vehicle to infrastructure communication and related applications such as personalized mobility The book also examines ITS technology enablers such as sensing technologies wireless communication computational technology user behavior as part of the transportation chain financial models that influence ITS regulations policies and standards affecting ITS and the future of ITS applications Users will find a holistic approach to the most recent technological advances and the future spectrum of mobility Systematically presents the whole spectrum of next generation Intelligent Transport Systems ITS technologies Integrates coverage of personalized mobility and digital assistants big data analytics and autonomous driving Includes end of chapter open ended questions that trigger thinking on the technological managerial and regulatory aspects of ITS

**A Handbook of Transport Economics** André de Palma, Robin Lindsey, Emile Quinet, Roger Vickerman, 2011-01-01 This Handbook is a stellar compilation of up to date knowledge about the important topics in transport economics Authors include the very best in the field and they cover the most important topics for today's research and policy applications Individual chapters contain sound readable well referenced explanations of each topic's history and current status I cannot think of a better place to start for anyone wanting to become current in the field or in any of its parts Kenneth Small University of California Irvine US Bringing together insights and perspectives from close to 70 of the world's leading experts in the field this timely Handbook provides an up to date guide to the most recent and state of the art advances in transport economics The comprehensive coverage includes topics such as the relationship between transport and the spatial economy recent advances in travel demand analysis the external costs of transport investment appraisal pricing equity issues competition and regulation the role of public private partnerships and the development of policy in local bus services rail air and maritime transport This Handbook is designed both for use on postgraduate and advanced undergraduate courses and as a reference for anyone working in the field It also complements the textbook Principles of Transport Economics

**European Transport Policy and Sustainable Mobility** Jonas Akerman, David Banister, Karl Dreborg, Peter Nijkamp, Ruggero Schleicher-Tappeser, Dominic Stead, Peter Steen, 2000-10-26 It is now widely accepted that transport is becoming increasingly unsustainable and that strong policy intervention is required to reduce both the growth in transport demand and the environmental costs of transport This book challenges conventional approaches to transport by moving away from trend based analysis towards the use of scenarios to identify alternative sustainable transport futures It both summaries the development of EU transport policy and presents a critique The policy context is widened to include the global changes taking place in economics society and technology It develops new methodologies for policy making for the next 25 years

*Climate Change and Sustainable Transportation* Anand S. Khatri, Dr Prabir G. Dastidar, Climate change is no longer a subject of scientific and academic importance the well being of the earth and human race is deeply dependent on it With rapid growth of population and accelerated urbanization the limited resources of earth have come under great stress Climate Change and Sustainable Transport provides a

comprehensive knowledge about the different dimensions of climate system climate change and role of transport in climate change its genesis and different migration options The book will help to develop an overview on the multifaceted interdependent complexities involved between climate change and transportation The chapters have been so developed that they present a broad overview of the relevance of sustainable transport system in the context of environment and climate change which determines how sustainability needs to be an underlining part of the policy framework and infrastructural development Inclusion of case studies based on the traffic scenarios of Delhi NCR and transport scenario of India as a whole has imparted practicality to the text The book will be relevant to the researchers policymakers administrators policy planners students teachers and general public at large and help them in discussing disseminating and propagating the work to inform political and societal decision makers in identifying problems and offering solutions that can be widely implemented in the larger public interest Climate Change and Sustainable Transportation will also help readers identify different facets of this complex subject and the responsible role it plays in the socio economic development of a country Table of Contents Foreword Preface 1 Atmosphere and Climate Systems 2 Transport System 3 Transport Sector in India and Traffic Scenario in Delhi NCR 4 Transport and Climate Change 5 Sustainability of the Environment 6 Railways the major and sustainable mode of transport in India Index About the Authors      **Economics of Globalisation** Partha Gangopadhyay,Manas

Chatterji,2017-12-01 Globalisation has evolved to become the dominant economic cultural environmental and political phenomenon of our time In economic terms debates now extend beyond concepts of winners and losers to key questions of how to deal with the problems unleashed by globalisation while preserving its benefits However if the benefits of globalisation are fairly shared and the costs properly dealt with a deeper economic understanding of how globalisation is impacting our economic world is needed This important book addresses this task featuring contributions from many of the world s leading economists Seven key aspects of globalisation are considered trans border trade trans border movement of people and capital the emergence of a new international order the homogenization of economic cultures technology and institutions labour market consequences corporate governance issues and prospects for a global society These carefully chosen themes illuminate the complex path that globalisation is following by showing it to be a process consisting of various transitions and subplots the totality of which is closely examined in this comprehensive and authoritative work Economics of Globalisation is essential reading for academics researchers policy makers and business professionals      *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

Community-Owned Transport Leigh Glover,2016-11-03 City and state governments around the world are struggling to achieve environmentally sustainable transport Economic technological city and transport planning and human behaviour solutions are often hampered by ineffective implementation So attention is now turning to institutional governmental and political barriers Approaches to these implementation problems assume that transport ownership can only be public owned by state entities or private corporate or personal Another option largely unexplored to date is communal ownership of transport Community Owned Transport proposes and develops the notion that communal ownership has a historical basis and provides unique opportunities for providing personal mobility It looks at the historical roots of modern urban transport s failings as those of technological change and the associated governing of transport systems particularly the role of public sector institutions Community ownership is explored through the new sharing economy developments car sharing ridesharing and bicycle share schemes and older social innovations in ecovillages and communal living Models and practices of community ownership of transport are provided and this study also discusses how community ownership might contribute to sustainable transport Drawing widely on different disciplines and fields of scholarship this book explores the conceptual and practical aspects of communal ownership of transport It will be a valuable resource for those seeking innovative approaches to addressing the pressing problems of transport including graduate and postgraduate students as well as policymakers practitioners and community groups

**Integrating Sustainability Into the Transportation Planning Process** ,2005 **Research on Transport Economics 1999** European Conference of Ministers of Transport,1999-11-23 This Annual Information Bulletin presents a survey of research in hand on the social and economic aspects of transport in over 400 specialised agencies which are mainly European West and East but in some cases American Canadian or Australian

**Future of Mobility Roadmaps** D.A. King, O.R. Inderwildi, Activities of the Conference: Resolutions of the Council of Ministers of Transport and Reports Approved 1997 European Conference of Ministers of Transport,1998-11-20 This publication describes the activities of the European Conference of Ministers of Transport during 1997 and sets out the Resolutions and Reports approved by the Council of Ministers of Transport during that year 14th International Conference on Environmental Science and Development (ICESD2023) Gordon Huang,Yongping Li,Changping Chen,Peng Zhang,2024-10-19 This book is proposed to be a collection of excellently peer reviewed research from the 2023 14th International Conference on Environmental Science and Development ICESD 2023 which will be held during May 25 27 2023 in Xiamen China ICESD 2023 will gather innovative academics and industrial experts to a common forum to facilitate the exchange of scientific information and its application in the field of Environmental Science and Sustainable Development Particularly a large amount of the research is related to the Water Governance Programme which is an initiative as

developed by the China International Center for Economic and Technical Exchanges United Nations Development Programme and Coca Cola China Recently effects of energy crisis water scarcity environmental pollution climate change COVID 19 pandemic and their interactions on eco environment and health have caused extraordinary risks in socio economic and environmental systems SEE Such risks feature dynamic uncertain and interactive characteristics In order to tackle these risks cutting edge technologies including both experimental approaches and modeling ones are desired urgently Particularly nature based solutions will be developed to help achieve net zero emission and United Nations Sustainable Development Goals In addition data driven and AI based methodologies will be developed to facilitate policy analysis of SEE under New Normal scenarios Furthermore the combinations of multiple approaches are expected to support the enhancement of SEE resilience in a post pandemic future Consequently ICESD 2023 will include presentations in the field of Water Resources Management Wastewater Treatment Drinking Water Safety Energy and Environmental Systems Analysis Air Pollution Control Solid Waste Management Sustainable Development Ecosystem Restoration Climate Change Adaptation and Socio economic and Environmental Management Excellent papers related to these topics would be enclosed in this proposed book

*ITF Transport Outlook 2021* International Transport Forum,2021-05-17 The ITF Transport Outlook 2021 provides scenarios for the development of transport demand up to 2050 This edition includes a special focus on the impacts of the Covid 19 pandemic on transport systems and models potential long term changes with challenges and opportunities for decarbonisation

**Transport Challenges in Latin American Cities** José Manuel Vassallo,Paola Carolina Bueno,2019-02-13 Most cities of the Latin America and the Caribbean region face similar problems including low quality public transport supply lack of planning congestion and both atmospheric and noise pollution As a response to these growing concerns many governments are implementing actions aimed at encouraging the use of more sustainable transport modes and reducing transport dependence on the private car Despite the advances gained through the implementation of these and other policies in LAC there is still a long way to go especially in the promotion of seamless transport systems at the city level the achievement of financial sustainability as well as the improvement of urban air quality This study identifies a number of best practices for overcoming or working around these challenges

Ecotrain Green Career Guide ,2009-09 Ecotrain Green Career Guide 13 13 13 13 Ecotrain Media Group presents the most comprehensive green career and business guide in the world Co founder provides 17 years of personal interest in sustainability and green research into a green career resource with over 125 pages of useful information directories and green industry contacts Our guide will save you thousands of hours of personal research time and money allowing you to spend your time landing that green job green career or green project first Ecotrain Green Career Guide is for Individuals Educators Business and Entrepreneurs 13 13 13 13 Ecotrain Green Career Guide provides 3 sections vital to your success no matter who what when how and where you are at in your transition to a GREEN future 13 13 13 13 Green Industry and Employment Breakdowns pp 6 65 13 13 This comprehensive section will



step you through a non biased approach and summary background to the growing cleantech economy and five industry sectors the 1 Green Economy as a whole 2 Renewable Energy 3 Green Building

## The Enigmatic Realm of **Social Costs And Sustainable Mobility**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **Social Costs And Sustainable Mobility** a literary masterpiece penned by way of a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of people who partake in its reading experience.

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