



# Social change and sustainable transport<sup>1</sup>

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There are important social changes that are influencing the way transport is now viewed. In particular, there are concerns that current trends in transport are not sustainable over the long term. This paper describes some of the main forces for social change and the way that they interact with transportation. It highlights a number of key areas where conceptual research work could prove advantageous and considers institutional mechanisms that would foster, in particular, transatlantic initiatives in these fields. © 1997 Elsevier Science Ltd. All rights reserved.

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Social change does not occur at a constant pace. Rather there is a complex blend or package of modifications to existing trends, new trends and mood breaks that interact to bring about changes to the way society develops. The process is also not unidirectional but embodies a range of important and still imperfectly understood feedback loops. A variety of factors make the late twentieth century a particularly important period in this respect. Rising incomes, more leisure time, changing demographic patterns, better education, technological advances, emerging life styles and new political priorities are among the factors influencing and being influenced by social change. These forces have, in very broad terms, led to outcomes of enhanced flexibility, fragmentation, polarization and differentiation in time and space.

Our understanding of the key driving forces for the new social structures is still limited. What is clear is that one important element in the process is linked to conflicting pressures of centralization. Combinations of new networks, externalities and the breaking down of barriers have led to pressures on the one hand for geographical and social concentration and uniformity but on the other for diversity and spread. At one level this may be viewed in terms of the continued urbaniza-

tion of many societies but at the same time the growth in 'newscities' and only in terms of location and job selection but also regarding shopping, recreational and other everyday activities. Transport considerations play an important role in shaping the nature and direction of centrifugal forces.

The forces bringing social change and the changes that emerge have linkages with all aspects of the social fabric. In a more specific context, transport is both an influence on the nature of social change and a reactor to it. We are, however, poorly informed about the role of social change in determining transport behaviour. Many of the important areas of interest, such as the interaction between changing household structure, travel behaviour and land-use, have been examined before but significant areas of ignorance remain. There are also newer issues, such as the interaction of transport and various communications systems on travel behaviour, land-use and social structure, which are adding to this area of ignorance.

Modern transport affords mobility, facilitates post-Fordist production and allows political cohesion. Degrees of access to transport networks affect social patterns at all levels of spatial aggregation. Transport supply, however, is regulated by political interests and market pressures both of which reflect changes in social attitudes, structures and priorities. Concerns about environmental degradation and economic efficiency are reflections of social changes in social

<sup>1</sup> Although this paper was not presented at Smethway, the authors were present and this paper represents their summary of the program being developed by NSF and EPA at the conclusion of that meeting.

# Social Change And Sustainable Transport

**R. Hickman,D. Bonilla,M. Givoni,D.  
Banister**



## **Social Change And Sustainable Transport:**

*Social Change and Sustainable Transport* William Richard Black, Peter Nijkamp, 2002-11-29 Transportation research has traditionally been dominated by engineering and logistics research approaches This book integrates social economic and behavioral sciences into the transportation field As its title indicates emphasis is on socioeconomic changes which increasingly govern the development of the transportation sector The papers presented here originated at a conference on Social Change and Sustainable Transport held at the University of California at Berkeley in March 1999 under the auspices of the European Science Foundation and the National Science Foundation The contributors who represent a range of disciplines including geography and regional science economics political science sociology and psychology come from twelve different countries Their subjects cover the consequences of environmentally sustainable transportation vs the business as usual status quo the new phenomenon of edge cities automobile dependence as a social problem the influence of leisure or discretionary travel and of company cars the problems of freight transport the future of railroads in Europe the imposition of electronic road tolls potential transport benefits of e commerce and the electric car     Sustainable Transportation

William Richard Black, 2010-01-01 During the last two decades sustainability has become the dominant concern of transportation planners and policymakers This timely text provides a framework for developing systems that move people and products efficiently while minimizing damage to the local and global environment The book offers a uniquely comprehensive perspective on the problems surrounding current transportation systems climate change urban air pollution diminishing petroleum reserves safety issues and congestion It explores the full range of possible solutions including applications of pricing planning policy education and technology Numerous figures tables and examples are featured with a primary focus on North America     *Social Dimensions of Sustainable Transport* Stefan Poppelreuter, 2016-12-05 Based on the work of the STELLA Sustainable Transport in Europe and Links and Liaisons with America Focus Group 3 this volume brings together leading transport academics to discuss society behaviour and public private transport Theoretical and empirical research from across North America and Europe form the basis of this book which is composed of twelve chapters that fall into four logical sections Chapters in the first section provide a contextual overview and survey trends in mobility behaviour and prospects of sustainable transport in the two continents Chapters in the second section provide comparative assessments of difficulties posed by contemporary transport systems for three particular user groups low income female and elderly interventions indicated and research needed The third set of chapters survey recent developments in behavioural modelling that lend themselves to the study of the constellation of issues concerning STELLA Focus Group 3 The remaining chapters of the book address critical issues of equity and policy implementation     Sustainable Transportation Henrik Gudmundsson, Ralph P. Hall, Greg Marsden, Josias Zietsman, 2015-07-03 This textbook provides an introduction to the concept of sustainability in the context of transportation planning management and decision making The book is divided into two

parts In the first part indicators and frameworks for measuring sustainable development in the transportation sector are developed In the second the authors analyze actual planning and decision making in transportation agencies in a variety of governance settings This analysis of real world case studies demonstrates the benefits and limitations of current approaches to sustainable development in transportation The book concludes with a discussion on how to make sustainability count in transportation decision making and practice     Experimenting for Sustainable Transport Remco Hoogma,Rene Kemp,Johan Schot,Bernhard Truffer,2005-06-29 This book describes eight experiments with sustainable transport options which are analysed in the context of established travel practice and car ownership and the problems they pose and the trends in transport technology and policy     **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     **Transport Models in Urban Planning Practices** Marco te Brömmelstroet,Luca Bertolini,2016-04-08 This book explores how transportation models can play a role in a changing transport planning and policy making context Most models are rooted in decades of development work and are geared to offer value free academic and explicit knowledge to transport planning experts However planning practice has changed dramatically over the years resulting in a less technical rational view on the use of such knowledge especially so in early strategy making phases More and more complex policy goals integration of a wide area of other policy domains a wider ever changing and much more mixed group of planning participants and much more focus on wicked problems The book maps how this influences the effectiveness of transport modelling exercises and explores several state of the art implementations This book was published as a special issue of Transport Reviews     **Intelligent Transportation Systems** Ahmed Abdel-Rahim,2012-03-16 Intelligent Transportation Systems ITS have transformed surface transportation networks through the integration of advanced communications and computing technologies into the transportation infrastructure ITS technologies have improved the safety and mobility of the transportation network through advanced applications such as electronic toll collection in vehicle navigation systems collision avoidance systems and advanced traffic management systems and advanced traveler information systems In this book that focuses on different ITS technologies and applications authors from several countries have contributed chapters covering different ITS technologies applications and management practices with the expectation that the open exchange of scientific results and ideas presented in this book will lead to improved understanding of ITS technologies and their applications     The Routledge Handbook of Tourism and Sustainability C. Michael Hall,Stefan

Gossling, Daniel Scott, 2015-02-11 Routledge Handbook of Tourism and Sustainability from C Michael Hall Stefan Gossling  
 Daniel Scott is one of the winners of the ITB Book Awards 2016 in the category Specialist tourism literature Sustainability remains one of the major issues in tourism today Concerns over climate and environmental change the fallout from the global economic and financial crisis and the seeming failure to meeting UN Millennium development goals have only reinforced the need for more sustainable approaches to tourism however they be defined Given the centrality of sustainability in tourism curricula policies research and practice it is therefore appropriate to prepare a state of the art handbook on the relationship between tourism and sustainability This timely Handbook of Tourism and Sustainability is developed from specifically commissioned original contributions from recognised authors in the field providing a systematic guide to the current state of knowledge on this area It is interdisciplinary in coverage and international in scope through its authorship and content The volume commences with an assessment of tourism's global environmental e.g climate emissions energy use biodiversity water use land use and socio economic effects e.g economic impacts employment and livelihoods culture This then provides the context for sections outlining the main theoretical frameworks and constructs that inform tourism and sustainability management tools and approaches and the approaches used in different tourism and travel industry sectors The book concludes by examining emerging and future concerns in tourism and sustainability such as peak oil post carbon tourism green economy and transition tourism This is essential reading for students researchers and academics interested in the possibilities of sustainable forms of tourism and tourism's contribution to sustainable development Its assessment of tourism's global impact along with its overviews of sectoral and management approaches will provide a benchmark by which the sustainability of tourism will be measured for years to come International Handbook on Transport and Development R. Hickman, D. Bonilla, M. Givoni, D. Banister, 2015-08-28 In the last forty years or so the research field exploring the relationship and interaction between transport and development has developed rapidly While sophistication in analysis has increased understanding the effective integration of transport and development often remains poor in theory and in practice with sometimes devastating effects This Handbook provides a comprehensive analysis of both the current and emerging thinking in this field drawing on multidisciplinary thinking in transport planning transport urban and spatial economics and the wider social sciences With 45 chapters from leading international authors the book is organised around three main themes urban structure and travel transport and spatial impacts wider dimensions in transport and development The chapters each present commentary on key issues within these themes presenting the debate on the impacts of urban structure on travel the impacts of transport investment on development and social and cultural change on travel A multitude of competing inter disciplinary perspectives are considered leaving the reader with an invaluable comprehensive and critical understanding of the field This major Handbook will serve as a guide for undergraduates and graduate students researchers consultants and also practitioners and policy makers wishing to find a comprehensive and original reference to research on transport and

development Contributors J A Annema F Avelino D Banister D Bonilla F Bruinsma C C Cantarelli X Jason Cao C L Chen G Cohen Blankshtain C Curtis G Dane J Dodson A Donald R Dowling M Echenique A El Geneidy R Ewing E Feitelson B Flyvbjerg N Garrick H Geerlings K Geurs M Givoni A R Goetz P Gordon A Grigolon D Halden P Hall I Hamiduddin S Handy P Headicar D A Hensher D Hidalgo R Hickman R Hjorthol M Hillman E Holden T Holvad H Holzapfel M Iacono O B Jensen P Jones J Kenworthy S Kenyon C A Kl ckner K J Krizek B Lee S Leleur D Levinson T Li Z Li K Linnerud S Marshall W Marshall E Matthies L Meija Dorantes R Meyfahrt P Mokhtarian J C Mu oz P Naess P Newman S Nordbakke S Petheram S Rasouli P Rietveld O Rotem Mindali T Schwanen N Sipe D Stead P Stoker G Stokes H Timmermans B Van Wee R Wilson D Yang

**Research on Women's Issues in Transportation, Report of a Conference ,2006      Community Carsharing and the Social-Ecological Mobility Transition** Luca Nitschke,2022-07-14 This book investigates how practices of community carsharing are influencing everyday mobility It argues that hegemonic practices of automobility are reconfigured through practices of community carsharing thereby challenging capitalist mobilities in the realm of everyday life Through a detailed empirical study of practices of community carsharing and its practitioners in the rural regions around Munich Germany this book reveals how the practice contributes to the emergence of alternative automobile practices meanings identities and subjectivities It also explores the embedding of automobility into its ecological context the connection of function and community in practices of community carsharing and the changing of ownership relations through a process of commoning mobility This reconfiguration of everyday practices of automobility takes place through processes of everyday resistance re embedding and commoning and ultimately results in the emergence of an alternative mobility culture thereby facilitating the dissemination of an alternative common sense of community carsharing This book on community carsharing provides a valuable insight into carsharing in rural settings and exemplifies how carsharing specifically and sharing mobilities in general can contribute to a social ecological mobility transition The work will be of particular interest to scholars and practitioners working in mobility studies and mobilities      **Megacities and Rapid Urbanization: Breakthroughs in Research and Practice**

Management Association, Information Resources,2019-07-05 As the global population continues to increase it has become necessary to find ways to handle this increase through various policy tools that address population growth and urbanization problems The urbanization process has both potential issues and opportunities that need to be exploited to move societies forward Megacities and Rapid Urbanization Breakthroughs in Research and Practice examines trends challenges issues and strategies related to population growth and rapid urbanization and its impact on urban environments The book also explores the use of different governance approaches in addressing challenges and different tools and systems of appropriate allocation to address issues This publication is an ideal reference source for academicians students practitioners professionals managers urban planners and government officials      **Mobilities and Inequality** Hanja Maksim,Manfred Max Bergman,2016-04-22 This book opens up the debate on the interrelations between space and

mobilities with regard to different dimensions of social inequality Based on the premise that the dynamics caused by modernization globalization migration and social change affect the structuring of the social fabric the focus of the book is to illuminate these processes of social and spatial re structurings A leading team of contributors from the Cosmobilities network highlight different aspects of inequality in relation to mobilities such as gender supplying transport infrastructure job related relocations multi locality social network geography and socio spatial development      Geographic Perspectives on Urban Sustainability V. Kelly Turner,David H. Kaplan,2021-05-13 The 21st century has been called the century of the city Unprecedented and uneven urban growth and expansion coupled with climate change have compounded concerns that current urbanization pathways are not sustainable Calls for scholarship on urban sustainability among geographers cite strengths in both examining human environment interactions and unravelling urbanization patterns and processes that positioned the discipline to make unique contributions to critical research needs Geographic Perspectives on Urban Sustainability reflects on the contributions that geographers have made to urban sustainability scholarship on varied domains such as transportation green infrastructure and gentrification Contributed chapters probe uniquely geographic perspectives on urban resilience environmental justice political ecology and planning that arise from empirically integrating social and biophysical realms that arise from considering spatial dimensions of problems like scale and place based peculiarities of phenomena This book will be of great value to scholars students and policymakers interested in Urban and City Planning Political Ecology and Sustainable Urbanism The chapters in this book were originally published as a special issue of Urban Geography      *Challenges and Opportunities for Transportation Services in the Post-COVID-19 Era* Catenazzo, Giuseppe,2022-05-06 During the pandemic transportation industries have heavily suffered from the overall lack of passengers A substantial share of employees have has been laid off and others have turned to different industries As mass vaccinations begin worldwide movement restrictions will continue to evolve and disappear in the months to come and new opportunities and challenges for transportation industries must be considered in a post pandemic world Challenges and Opportunities for Transportation Services in the Post COVID 19 Era explores the challenges and the new directions to match travelers needs in a post COVID 19 world and illustrates several methodological applications in transportation to inspire scholars researchers and developers to further their efforts in boosting the design and use of sustainable mobility Covering a range of topics such as green resilience and sustainability it is ideal for transportation service managers government officials developers engineers decision makers analysts academicians researchers instructors and students      **Towns in a Rural World** Teresa de Noronha Vaz,Eveline van Leeuwen,2016-02-24 Focusing on the strategic position of towns in rural development this book explores how they act as hotspots for knowledge creation diffusion for vital business life and innovation and social networks and community bonds By doing so towns even the smallest can cope with processes of socio economic decline and promote a geographically balanced income distribution and sustainable production structure The

contributors to this volume examine how to take advantage of the great potential offered by urban areas in the rural world to favour competitiveness and encourage economic activity Taking a European perspective the authors identify the main socio economic advantages generated by urbanized population settlements that small and medium sized rural towns can provide Although much attention is currently focused on the efficient use of scarce natural resources and land they argue that towns have an increasingly important economic and social role to play in rural areas

*Large Systems Change: An Emerging Field of Transformation and Transitions* Malcolm McIntosh, Steve Waddell, Sandra Waddock, Sarah Cornell, Domenico Dentoni, Milla McLachlan, 2024-11-01 Large Systems Change LSC is a field of study and action that is characterized by its focus on transformational pathways towards a participative flourishing future through inter and trans disciplinary approaches that value engagement with practitioners and those aspiring for such futures Its emergence holds great promise for addressing critical issues Advancing its development requires aggressiveness to cross the many disciplinary institutional and other boundaries and build the necessary scale of effort however humbleness is also required to recognize that although we have substantial knowledge and methodologies for approaching LSC we are still at early stages of their development The papers in this Special Issue of The Journal of Corporate Citizenship focus on the question of how to scale to the field of LSC We can see the contributors and editors reflect on this at the three levels broadening by increasing the numbers of people and organizations identified with it going up and out with a more receptive environment arising with failures of traditional management approaches and deepening of knowledge and methods for supporting LSC This Special Issue will be essential reading for those researching in this emerging field and practitioners looking for the latest thinking on how LSC may be a solution to global challenges

*Geography in America at the Dawn of the 21st Century* Gary L. Gaile, Cort J. Willmott, 2005 Geography in America at the Dawn of the 21st Century surveys American geographers current research in their specialty areas and tracks trends and innovations in the many subfields of geography As such it is both a state of the discipline assessment and a topical reference It includes an introduction by the editors and 47 chapters each on a specific specialty The authors of each chapter were chosen by their specialty group of the American Association of Geographers AAG Based on a process of review and revision the chapters in this volume have become truly representative of the recent scholarship of American geographers While it focuses on work since 1990 it additionally includes related prior work and work by non American geographers The initial Geography in America was published in 1989 and has become a benchmark reference of American geographical research during the 1980s This latest volume is completely new and features a preface written by the eminent geographer Gilbert White

Tourism and Transport Les M. Lumsdon, Stephen J. Page, 2007-08-22 Advances in Tourism Research is a series of monographs and edited volumes that presents state of the art research findings written and edited by leading researchers working in the wider field of tourism studies These papers focus upon how tourism and transport will develop during the 21st century



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## **Table of Contents Social Change And Sustainable Transport**

1. Understanding the eBook Social Change And Sustainable Transport
  - The Rise of Digital Reading Social Change And Sustainable Transport
  - Advantages of eBooks Over Traditional Books
2. Identifying Social Change And Sustainable Transport
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Social Change And Sustainable Transport
  - User-Friendly Interface
4. Exploring eBook Recommendations from Social Change And Sustainable Transport
  - Personalized Recommendations
  - Social Change And Sustainable Transport User Reviews and Ratings
  - Social Change And Sustainable Transport and Bestseller Lists

5. Accessing Social Change And Sustainable Transport Free and Paid eBooks
  - Social Change And Sustainable Transport Public Domain eBooks
  - Social Change And Sustainable Transport eBook Subscription Services
  - Social Change And Sustainable Transport Budget-Friendly Options
6. Navigating Social Change And Sustainable Transport eBook Formats
  - ePub, PDF, MOBI, and More
  - Social Change And Sustainable Transport Compatibility with Devices
  - Social Change And Sustainable Transport Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Social Change And Sustainable Transport
  - Highlighting and Note-Taking Social Change And Sustainable Transport
  - Interactive Elements Social Change And Sustainable Transport
8. Staying Engaged with Social Change And Sustainable Transport
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Social Change And Sustainable Transport
9. Balancing eBooks and Physical Books Social Change And Sustainable Transport
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Social Change And Sustainable Transport
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Social Change And Sustainable Transport
  - Setting Reading Goals Social Change And Sustainable Transport
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Social Change And Sustainable Transport
  - Fact-Checking eBook Content of Social Change And Sustainable Transport
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

#### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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