GOVERNANCE OF THE SMART MOBILITY TRANSITION

GOVERNANCE OF THE SMART MOBILITY TRANSITION

EDITED BY

GREG MARSDEN

University of Leeds, Leeds, UK

LOUISE REARDON University of Birmingham, Birmingham, UK



United Kingdom – North America – Japan India – Malaysia – China Emerald Publishing Limited Howard House, Wagon Lane, Bingley BD16 1WA, UK

First edition 2018

Copyright © 2018 Emerald Publishing Limited

Reprints and permissions service

Contact: permissions@emeraldinsight.com

No part of this book may be reproduced, stored in a retrieval system, transmitted in any form or by any means electronic, mechanical, photocopying, recording or otherwise without either the prior written permission of the publisher or a licence permitting restricted copying issued in the UK by The Copyright Licensing Agency and in the USA by The Copyright Clearance Center. Any opinions expressed in the chapters are those of the authors. Whilst Emerald makes every effort to ensure the quality and accuracy of its content, Emerald makes no representation implied or otherwise, as to the chapters' suitability and application and disclaims any warranties, express or implied, to their use.

British Library Cataloguing in Publication Data

A catalogue record for this book is available from the British Library

ISBN: 978-1-78754-320-1 (Print) ISBN: 978-1-78754-317-1 (Online) ISBN: 978-1-78754-319-5 (Epub)



ISOQAR certified Management System, awarded to Emerald for adherence to Environmental standard ISO 14001:2004.

Certificate Number 1985 ISO 14001



CONTENTS

About the Editors	vii
About the Authors	ix
Acknowledgements	xiii
 Introduction Greg Marsden and Louise Reardon 	1

SECTION ONE

NAVIGATING THE ROLE OF THE STATE

2.	New Governance Challenges in the Era of 'Smart' Mobility	
	lain Docherty	19
3.	The Case of Mobility as a Service: A Critical Reflection on	
	Challenges for Urban Transport and Mobility Governance	
	Kate Pangbourne, Dominic Stead, Miloš Mladenović and	33
	Dimitris Milakis	

SECTION TWO

WHOSE VOICES ARE IN THE SMART MOBILITY DEBATE?

4.	Smart Mobility: Disrupting Transport Governance?	
	Robyn Dowling	51

5.	Governing the Race to Automation	
	Debbie Hopkins and Tim Schwanen	65
6.	Who Benefits from Smart Mobility Policies? The Social Construction of Winners and Losers in the Connected Bikes	
	Projects in the Netherlands	
	Edgar Salas Gironés and Darja Vřščaj	85

SECTION THREE

STATE CAPACITY

7.	Governmental Capacity and the Smart Mobility Transition <i>Diane E. Davis</i>	105
8.	Planning for Disruptive Transport Technologies: How Prepared Are Australian Transport Agencies? John Stone, David Ashmore, Jan Scheurer, Crystal Legacy and Carey Curtis	123
9.	Does Governance Matter? An International Scenarios Exercise Greg Marsden and Louise Reardon	139

SECTION FOUR

CONCLUSION

10.	Conclusion: A Window of Opportunity	
	Louise Reardon and Greg Marsden	155

Index

167

ABOUT THE EDITORS

Greg Marsden is Professor of Transport Governance at the Institute for Transport Studies at the University of Leeds, UK. He has researched the design and implementation of new policies for over 15 years, with a particular focus on climate and energy policy. His current work examines how the smart mobility transition will change how we think about what, how and who governs the mobility system. He is currently Chair of the Commission on Travel Demand, looking at how to deal with alternative demand futures. He is the Secretary General of the World Conference on Transport Research Society (WCTRS) and Co-Chair of the Special Interest Group on Governance and Decision-Making Processes. He has served as an advisor to the House of Commons Transport Select Committee and regularly advises national and international governments.

Louise Reardon is Lecturer at the Institute of Local Government Studies (INLOGOV), University of Birmingham, UK. Her research explores the implications of governance arrangements and public policy processes on decision-making, with a particular interest in transport and wellbeing. Her research is at the forefront of understanding the political and policy interest in wellbeing, and she recently co-authored a book entitled *The Politics and Policy of Wellbeing: Understanding the Rise and Significance of a New Agenda.* As Co-Chair of the WCTRS Special Interest Group on Governance and Decision-Making Processes, she is keen to grow the community of scholars critically engaged in understanding and challenging the status quo of transport policymaking.

ABOUT THE AUTHORS

David Ashmore is Affiliate Researcher at the University of Melbourne. He is currently working towards his doctorate which examines the symbolic aspects of transport choice across different cultures. His professional background is in transport regulation and procurement; he has worked for consulting firms, universities and the civil service.

Carey Curtis is Professor of City Planning and Transport at Curtin University, Director of Urbanet research network and Guest Professor at the University of Gothenburg. Her research interests include city form and structure, transit-oriented development, personal travel behaviour, accessibility planning, institutional barriers to sustainable transport, governance and transport policy.

Diane E. Davis is Charles Dyer Norton Professor of Regional Planning and Urbanism, and Chair of the Department of Urban Planning and Design at the Harvard Graduate School of Design. Her published works examine the relations between urbanization and national development, the politics of urban policy and urban governance. Her current research focuses on the future of cities in an era of rapid technological innovation, climate change and new forms of sovereignty.

Iain Docherty is Professor of Public Policy and Governance at the University of Glasgow. He has held board-level appointments with client and provider sides of the transport industry in the United Kingdom and advised public agencies in the United States, Australia, Canada, the Netherlands and Sweden, and the OECD.

Robyn Dowling is Professor of Urbanism in the School of Architecture, Design and Planning at the University of Sydney. She is well known for her work on the cultural geographies of suburban homes and neighbourhoods. Her current research focuses on urban policy responses to technological disruptions, focusing on smart mobility and the implementation of smart city strategies.

Edgar Salas Gironés is a PhD Candidate in Innovation Governance at Eindhoven University of Technology. In his PhD project, he studies the emerging governance arrangements between private and public actors for the transition towards Smart Mobility in the Netherlands.

Debbie Hopkins is a Departmental Research Lecturer in the School of Geography and the Environment, University of Oxford. Her research responds to questions of behaviour change, socio-technical innovation, and low carbon transitions. She is the co-editor of *Low Carbon Mobility Transitions* (Goodfellow, 2016).

Crystal Legacy is Senior Lecturer in Urban Planning at the University of Melbourne. Her research examines questions of urban conflict and citizen engagement with a current focus on the role of the citizen in contested transport processes in Australian and Canadian cities. She is co-editor of *Instruments of Planning: Tensions and Challenge for More Equitable and Sustainable Cities* (Routledge, 2015).

Dimitris Milakis is Assistant Professor of Smart and Sustainable Transport Systems at Delft University of Technology. His research focuses on the influences of the built environment and (emerging) transport systems on human travel and location behaviour. He is also interested in human perceptions and preferences of travel and their integration into urban and transport planning.

Miloš Mladenović is an Assistant Professor at the Spatial Planning and Transportation Engineering Group, Aalto University. His current research interests include ethical assessment of emerging mobility technologies, socially sustainable transport planning methods, asset management methods for intelligent transport systems and transport engineering education practices.

Kate Pangbourne is an EPSRC/LWEC-funded University Academic Fellow at the Institute for Transport Studies, University of Leeds. She has an MA (Hons) in Philosophy with English Literature, an MSc in Sustainable Rural Development and a PhD in Geography (Environmental). With an interdisciplinary background encompassing environmental sustainability, transport geography, technology, social science and philosophy, she addresses changing behaviours, practices and governance. Jan Scheurer is Senior Research Fellow at Curtin University, Perth, and an Honorary Associate at RMIT University, Melbourne/Barcelona. He has 20 years of academic experience in the fields of transport and accessibility planning, urban design and sustainability studies.

Tim Schwanen is Associate Professor of Transport Studies and Director of the Transport Studies Unit at the University of Oxford. He holds a PhD in Geography from Utrecht University, the Netherlands and has published extensively on various dimensions of everyday mobility, including the role of new technologies and the dynamics and prospects of low carbon transitions in urban mobility.

Dominic Stead is Associate Professor of Urban and Regional Development at Delft University of Technology and Honorary Research Fellow at University College London. He has held positions at the University of Queensland, Friedrich-Alexander University Erlangen-Nürnberg, Hafen-City Universität Hamburg, University College London and the University of the West of England.

John Stone is Senior Lecturer in Transport Planning at the University of Melbourne. His research explores the political and institutional context for variation in international transport planning practice, with a focus on cities in Australia, Canada and German-speaking Europe. He has also worked in local government and as a community advocate for sustainable transport.

Darja Vrščaj graduated from Maastricht University in 2014, having completed a research MSc in Science and Technology Studies. In the past, she worked at the European Parliament, STOA Unit and the OECD, STI Directorate. Currently, she is pursuing a PhD at the Technical University of Eindhoven. Her research is co-funded by the Ministry of I&M.

ACKNOWLEDGEMENTS

We would like to thank the International Transport Forum and in particular Jose Viegas, Stephen Perkins, Claire Millar and Magdalena Olczak for their support in organizing the research day and side event to the 2017 International Transport Forum Summit in Leipzig from which this collaboration grew.