



14th World Conference on

# Transport Research

10-15 July 2016 • Tongji University, Shanghai, China



**PROGRAMME BOOKLET**

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## TOPIC G: TRANSPORT PLANNING AND POLICY

### G1: Governance and Decision-Making Processes

**Monday, 11 July**

#### G1 – 2B - Policy Change and Policy Stability

Room: ZHB401

Session Chair: Greg Marsden

10:50-11:10	G1-2B1®	<b>How cities use regulation for innovation: The case of Uber, Lyft and Sidecar in San Francisco</b> O.F. Dewey <sup>1</sup> , L. Rayle <sup>2*</sup> , <sup>1</sup> Harvard University, USA, <sup>2</sup> University of California, USA
11:10-11:30	G1-2B2	<b>National policies on local school siting, school transport and options for children's travel to school in the United Kingdom</b> R.L. Steiner <sup>1*</sup> , G.R. Marsden <sup>2</sup> , <sup>1</sup> University of Florida, USA, <sup>2</sup> University of Leeds, UK
11:30-11:50	G1-2B3®	<b>Identifying public transport priorities in Auckland</b> M. Imran <sup>1*</sup> , J. Pearce <sup>2</sup> , <sup>1</sup> Massey University, New Zealand, <sup>2</sup> Canterbury University, New Zealand

#### G1 – 2C - Multi-Level Governance

Room: ZHB401

Session Chair: Louise Reardon

13:30-13:50	G1-2C1	<b>Multiple level, multiple criteria and group-oriented evaluation of urban transportation projects</b> J. Zak <sup>1*</sup> , M. Kruszynski <sup>1</sup> , L. Owczarzak <sup>1</sup> , <sup>1</sup> Poznan University of Technology, Poland
13:50-14:10	G1-2C2®	<b>Multiple solutions, multiple regions, multiple levels and multiple criteria: Deciding on rail for Brussels with Competence-based Multi Criteria Analysis</b> G. te Boveldt <sup>1*</sup> , C. Macharis <sup>1</sup> , K. Van Raemdonck <sup>1</sup> , <sup>1</sup> Vrije Universiteit Brussel, Belgium
14:10-14:30	G1-2C3	<b>Fiscal and budgetary frameworks for local funding of urban transportation infrastructure in multilevel systems: cities and its fiscal challenges in Germany</b> A.W. Heinemann <sup>1*</sup> , A. Knorr <sup>1</sup> , <sup>1</sup> University of Bremen, Germany

#### G1 - 2D - Organizations and Governance

Room: ZHB401

Session Chair: Mohammed Imran

15:30-15:50	G1-2D1®	<b>Organizational structures of urban public transport - a diagrammatic comparison with UML</b> T. Shibayama <sup>1*</sup> , <sup>1</sup> Vienna University of Technology, Austria
15:50-16:10	G1-2D2®	<b>A principal-agent model comprising organization structure - taking China's railway as an example</b> J. Zhao <sup>1*</sup> , T. Hu <sup>1</sup> , Y. Zhao <sup>1</sup> , <sup>1</sup> Beijing Jiaotong University, China, <sup>2</sup> Beijing Jiaotong University, China, <sup>3</sup> Beijing Jiaotong University, China
16:10-16:30	G1-2D3®	<b>A multi-actor multi-criteria transit system selection model: A case study of Bangkok feeder system</b> A. Sirikijpanichkul <sup>1*</sup> , S. Winyoopadit <sup>1</sup> , A. Jenpanitsub <sup>1</sup> , <sup>1</sup> Kasetsart University, Thailand, <sup>2</sup> The Mass Rapid Transit Authority of Thailand, Thailand
16:30-16:50	G1-2D4	<b>Trucking regulation as a critical supply chain asset in port complexes</b> T. O'Brien <sup>1*</sup> , P.V. Hall <sup>2</sup> , <sup>1</sup> California State University, Long Beach, USA, <sup>2</sup> Simon Fraser University, Canada

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14:30-14:50	G1-2D5®	<b>Methodology for diagrammatic comparison of transport planning competences over national borders</b> T. Shibayama <sup>1*</sup> , U. Leth <sup>1</sup> , G. Emberger <sup>1</sup> , <sup>1</sup> Vienna University of Technology, Austria
<b>Tuesday, 12 July</b>		
<b>G1 - 3A - Partnerships and Governance Innovations</b> Room: ZHB401 Session Chair: Michela Le Pira		
08:30-08:50	G1-3A1®	<b>Understanding transport planning education in an Australian context</b> I.B. Mateo-Babiano <sup>1*</sup> , <sup>1</sup> The University of Queensland, Australia
08:50-09:10	G1-3A2®	<b>Rethinking public private partnerships: An unbundling approach</b> S. Garg <sup>1*</sup> , S. Garg <sup>2</sup> , <sup>1</sup> Indian Institute of Management Indore, India, <sup>2</sup> George Mason University, USA
09:10-09:30	G1-3A3®	<b>Study on the features of the evolution processes and business models of global enterprises in the transport sector</b> N. Hiroyuki <sup>1*</sup> , <sup>1</sup> Ministry of Land, Infrastructure and Transport, Japan
<b>G1 – 3B - Challenging the Policy Cycle</b> Room: ZHB401 Session Chair: Ruth Steiner		
10:30-10:50	G1-3B1	<b>Questions of governance: Rethinking the study of transportation policy</b> G. Marsden <sup>1</sup> , L. Reardon <sup>1*</sup> , <sup>1</sup> University of Leeds, UK
10:50-11:10	G1-3B2®	<b>The changing decision-making narratives in 25 years of Trans-European transport network policies</b> A. Aparicio <sup>1*</sup> , <sup>1</sup> Technical University of Madrid, Spain
11:30-11:30	G1-3B3®	<b>Introducing adaptive planning of transport infrastructure to extend its value over the longer term</b> M. Givoni <sup>1*</sup> , A. Perl <sup>2</sup> , <sup>1</sup> Tel Aviv University, Israel, <sup>2</sup> Simon Fraser University, Canada
<b>Wednesday, 13 July</b>		
<b>G1 - 4C - Participatory Planning and Governance</b> Room: ZHB401 Session Chair: Moshe Givoni		
13:30-13:50	G1-4C1	<b>The TUM Accessibility Atlas as a tool for fostering decision making processes on sustainable mobility in the metropolitan region of Munich</b> B. Büttner <sup>1*</sup> , G. Wulfhorst <sup>1</sup> , <sup>1</sup> Technische Universität München (TUM), Germany
13:50-14:10	G1-4C2	<b>Developing a framework for effective participatory transport planning processes to promote socially inclusive sustainable mobility</b> J. Elvy <sup>1*</sup> , <sup>1</sup> University of Leeds, UK
14:10-14:30	G1-4C3®	<b>Modelling consensus building in Delphi practices for participated transport planning</b> M. Le Pira <sup>1*</sup> , G. Inturri <sup>1</sup> , M. Ignaccolo <sup>1</sup> , A. Pluchino <sup>1</sup> , <sup>1</sup> University of Catania, Italy
14:30-14:50	G1-4C4®	<b>Road safety data and information availability and priorities in south-east European regions</b> A. Laiou <sup>1</sup> , E. Papadimitriou <sup>1</sup> , G. Yannis <sup>1*</sup> , A. Milotti <sup>2</sup> , <sup>1</sup> National Technical University of Athens, Greece, <sup>2</sup> ALOT s.c.a.r.l. - Agency of East Lombardy for Transport and Logistics, Italy

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## G1 - 4D - Understanding Wider Transport Impacts in Policy

Room: ZHB401

Session Chair: Angel Aparicio

15:30-15:50	G1-4D1	<b>Understanding quality of life's operationalization in policy: Lessons from UK transport</b> L. Reardon <sup>1*</sup> , <sup>1</sup> University of Leeds, UK
15:50-16:10	G1-4D2 <sup>®</sup>	<b>Major transport corridors: The concept of sustainability in EU documents</b> M. Öberg <sup>1*</sup> , K.L. Nilsson <sup>1</sup> , C. Johansson <sup>1</sup> , <sup>1</sup> Luleå University of Technology, Sweden
16:10-16:30	G1-4D3	<b>Incomplete cost – incomplete benefit analysis in transport appraisal</b> R. Hickman <sup>1*</sup> , <sup>1</sup> UCL, UK

## G2: National and Regional Transport Planning and Policy

Monday, 11 July

### G2 – 2B- National Transport Policy 1

Room: ZHB402

Session Chair: Takeru Shibayama

10:50-11:10	G2-2B1 <sup>®</sup>	<b>Appropriate national policy frameworks for Sustainable Urban Mobility Plans</b> A.D. May <sup>1*</sup> , S. Boehler-Baedeker <sup>2</sup> , T. Durlin <sup>3</sup> , M. Enache <sup>4</sup> , <sup>1</sup> University of Leeds, UK, <sup>2</sup> Rupprecht Consult Forschung und Beratung GmbH, Germany, <sup>3</sup> Cerema, France, <sup>4</sup> EMI Systems, Romania
11:10-11:30	G2-2B2 <sup>®</sup>	<b>National transport policy in Austria - from its beginning till today</b> G. Emberger <sup>1*</sup> , <sup>1</sup> Vienna University of Technology, Austria
11:30-11:50	G2-2B3	<b>Transport policy planning in Germany – An analysis of political programs and investment masterplans</b> F. Fichert <sup>1*</sup> , <sup>1</sup> Worms University of Applied Sciences, Germany
11:50-12:10 <sup>®</sup>	G2-2B4 <sup>®</sup>	<b>Transport policies in Hungary - Historical background and current practice for national and regional level</b> V. Oszter <sup>1*</sup> , <sup>1</sup> KTI Institute for Transport Sciences Non Profit Ltd., Hungary

### G2 – 2C - National Transport Policy 2

Room: ZHB402

Session Chair: Guenter Emberger

13:30-13:50	G2-2C1 <sup>®</sup>	<b>Regional transport planning in Melbourne (1985-2015): An analysis of process and outcomes</b> J. Stone <sup>1</sup> , J. Dodson <sup>2</sup> , Y. Kirk <sup>1</sup> , I. Jones <sup>3*</sup> , <sup>1</sup> University of Melbourne, Australia, <sup>2</sup> RMIT University, Australia, <sup>3</sup> University of Leeds, UK
13:50-14:10	G2-2C2 <sup>®</sup>	<b>Consistency of state road network master plan development steps</b> F.M. Heinitz <sup>1*</sup> , <sup>1</sup> Erfurt University of Applied Sciences, Germany
14:10-14:30	G2-2C3 <sup>®</sup>	<b>Development of the first long-term national transport strategy for the Hashemite Kingdom of Jordan</b> S. Maffii <sup>1*</sup> , S. Bosetti <sup>1</sup> , U. Reiter <sup>2</sup> , <sup>1</sup> TRT Trasporti e Territorio, Italy, <sup>2</sup> PTV Transport Consult, Germany
14:30-14:50	G2-2C4 <sup>®</sup>	<b>Japan's transport planning at national level, natural disasters, and their interplays</b> T. Shibayama <sup>1*</sup> , <sup>1</sup> Vienna University of Technology, Austria

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<b>G2 – 3D - Rail</b> Room: ZHB402 Session Chair: Yannick Cornet		
15:30-15:50	G2-3D1®	<b>A study of vertical separation in Japanese passenger railways</b> F. Kurosaki <sup>1*</sup> , <sup>1</sup> <i>Institute of Transportation Economics, Japan</i>
15:50-16:10	G2-3D2	<b>Impacts on economic integration of potential integrated HSR network in East Asia: From the perspective of accessibility</b> F.J. Jin <sup>1*</sup> , J.J. Jiao <sup>1</sup> , <sup>1</sup> <i>Institute of Geographic Sciences and Natural Resources Research, China</i>
16:10-16:30	G2-3D3®	<b>High speed rail: A mandate for future generations?</b> Y. Cornet <sup>1*</sup> , G. Dudley <sup>2</sup> , D. Banister <sup>2</sup> , <sup>1</sup> <i>Technical University of Denmark, Denmark</i> , <sup>2</sup> <i>University of Oxford, UK</i>
16:30-16:50	G2-3D4	<b>High-Speed rail as a catalyst for Regional Development- A comparative study between North West England, UK and Nord-Pas-de-Calais, France</b> C.L. Chen <sup>1*</sup> , <sup>1</sup> <i>UCL, UK</i>
16:50-17:10	G2-3D5®	<b>Re-analyse the early stage American railway investment system from the land and private double-guided perspective: The drawbacks and warnings</b> X.Y. Lin <sup>1*</sup> , Z.S. Kuang <sup>1</sup> , <sup>1</sup> <i>School of Economics and Management, Beijing Jiaotong University, China</i>
<b>Wednesday, 13 July</b>		
<b>G2 - 4A - Modelling 1</b> Room: ZHB402 Session Chair: Guenter Emberger		
08:30-08:50	G2-4A1®	<b>Study of car ownership behaviour in rural and urban areas of India</b> R. Choudhary <sup>1*</sup> , V. Vasudevan <sup>1</sup> , <sup>1</sup> <i>Indian Institute of Technology Kanpur, India</i>
08:50-09:10	G2-4A2®	<b>Scale forecast method for regional highway network based on BPNN-MOP</b> H. Yang <sup>1*</sup> , X. Li <sup>1</sup> , B. Wu <sup>1</sup> , <sup>1</sup> <i>Tongji University Key Laboratory of Road and Traffic Engineering of Ministry of Education, China</i>
09:10-09:30	G2-4A3®	<b>Government electro mobility incentives - a system dynamics approach to analyse market uptake and impact on public budgets</b> N. Fearnley <sup>1</sup> , P. Pfaffenbichler <sup>2</sup> , G. Emberger <sup>2*</sup> , <sup>1</sup> <i>Institute of Transport Economics, Norway</i> , <sup>2</sup> <i>Vienna University of Technology – TU Wien, Austria</i>
09:30-09:50	G2-4C1®	<b>Incorporating in-home activities in ADAPTS: A sequential conditional probability framework</b> M.F.L. Fasihozaman Langerudi <sup>1*</sup> , K.M. Mohammadian <sup>1</sup> , M.J. Javanmardi <sup>1</sup> , R.S. Shabanpour <sup>1</sup> , T.H.R. Rashidi <sup>1</sup> , <sup>1</sup> <i>University of Illinois at Chicago, USA</i>
09:50-10:10	G2-4A5®	<b>A Market Share Analysis for Hybrid Cars in Indonesia</b> M. Zudhy Irawan <sup>1*</sup> , A. Widyaparaga <sup>1</sup> , D. Deendarlianto <sup>1</sup> , A. Budiman <sup>1</sup> , I. Muthohar <sup>1</sup> , B.M. Sopha <sup>1</sup> , I.D. Sanjoyo <sup>1</sup> , <sup>1</sup> <i>Gadjah Mada University, Indonesia</i>
<b>G2 - 4C - Modelling 2 / Economy</b> Room: ZHB402 Session Chair: Aki Aapaoja		
13:30-13:50	G2-4A4	<b>The system dynamics of funding and financing of transport infrastructure</b> A. Rouboutsos <sup>1*</sup> , A. Pantelias <sup>1</sup> , <sup>1</sup> <i>University of the Aegean, Greece</i> , <sup>2</sup> <i>University College London, UK</i>

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