

Thursday 5 October
Plenary session 0915 – 1000
Looking to the Future for Barcelona

Enric Cañas, Chief Executive of
Transports Metropolitans de Barcelona

	Session 4 1000 - 1130	Session 5 1200 - 1400	Session 6 1530 - 1730
Value of Time	<p>Keynote presentation 1030 – 1130 Chair: Peter Davidson, Peter Davidson Consultancy, UK The value of time in the future Mogens Fosgerau, Professor of Transportation and Urban Economics, University of Copenhagen, DK</p>	<p>Value of Enjoyment Time Session Chair: Paul Hanson, AECOM, UK Keeping busy while traveling: evidence for travel-based multitasking from Belgium I Keseru, C Macharis, Vrije Universiteit Brussel MOBI Research Centre, BE The value of travel and waiting time for ferry passengers in fjord crossings: the case of the Trondheimfjord, Norway P Urzainqui Merino, M Díez Gutiérrez, T Tørset NTNU, NO Value of Time in the economic evaluation of transport infrastructures: an application of a cluster analysis F Pizzutilo, E Venezia, Università degli studi di Bari "Aldo Moro", IT</p>	<p>People and the Value of Time Session Chair: Rob Sheldon, Accent, UK Do individuals have different preferences as consumer and citizen? the trade-off between travel time and safety N Mouter, S van Cranenburgh, B van Wee, Delft University of Technology, NL Beyond traditional value-of-time: passenger behaviour for multimodal door-to-door travels in the age of information technologies N Lenoir, I Laplace, ENAC, FR Value-of-time in travel demand forecasting and transport project assessment: proposal for a new approach F di Ciommo, cambiaMO, ES; K Martens, Faculty of Architecture and Town Planning –Technion, IL The inconvenience of waiting time for ferry – a Norwegian case study S Nyland Andersen, Norwegian Public Roads Administration; T Tørset, Norwegian University of Science and Technology, NO</p>
Mobility as a Service		<p>Mobility as a Service Session Chair: Farshid Kamali, Atkins, UK What role for public authorities in the development of Mobility-as-a-Service? the Helsinki case M Audouin, EPFL, CH Mobility-as-a-Service platform M Javornik, Comtrade Digital Services, SL Dynamic adaptive policymaking for implementing Mobility as a Service (MaaS) P Jittrapirom, V A W J Marchau, H Meurs, Radboud University, Nijmegen School of Management, NL</p>	<p>Mobility as a Service Session Chair: Samya Ghosh, AECOM, UK Mobility-as-a-Service: a theoretical framework M A Karlsson, Chalmers University of Technology; D Mukhtar-Landgren, T Koglin, Lund University, SE Density economies and the profitability of demand responsive services J Berrada, VEDECOM; F Leurent, Université Paris-Est, FR Cable cars as a new dimension to sustainable urban development K Bernard, Doppelmayr, AT</p>
Intelligent Mobility – Management and Operations	<p>Connected and Autonomous Vehicles Session Chair: Gav Jackman, TSS, UK Automated commercial vehicle fleets - what will they deliver? J Luetzner, Continental Automotive GbmH, DE Modelling the effects of connected vehicle platooning: a micro-simulation approach S Kavakeb, P Arnold, AECOM, UK Traffic flow with autonomous vehicles in real life traffic situations E Ryeng, E Myklebust Lindseth, T Haugen, NTNU – The Norwegian University of Science and Technology, NO</p>	<p>Technology Session Chair: Richard Cunard, TRB, US Modelling weather effects on road casualty statistics D Lloyd, D Mais, Department for Transport; J Davies, Office for National Statistics, UK Towards laminar traffic flows? impact of adaptive speed limitation policies on road congestion, safety and environment on the Belgian roadway network H Benaich, A Counet, A Martin-Dismier, STRATEC, BE The influence of risk perception on travel behaviour among Norwegian cyclists A-M Kummeneje, Norwegian University of Science and Technology/SINTEF, NO</p>	<p>Electric Vehicles Session Chair: Laurence Chittock, Mott MacDonald, UK Driving style classification with battery electric vehicles - analysis of driving behavior and intention S Müller-Blumhagen, M Günther, J F Krems, University of Technology Chemnitz, DE Delivering a low emission neighbourhood: electric vehicle only streets M Croucher, WSP Parsons Brinckerhoff, UK Planning electromobility within SUMP - the French PDU case T Durlin, Cerema, FR A potential role for e-car clubs in promoting the uptake of new vehicle technologies A Smyth, University of Hertfordshire, UK; L Kelleher, University College Dublin, IE</p>

<p>Global Issues</p>			<p>Emissions Session Chair: Janina Scheelhaase, DLR, DE</p> <p>Reducing energy consumption and carbon emissions in a bus route: a case study in the Latin American context X Karekla, University College London, UK; R Fernandez, Universidad de Los Andes, CL</p> <p>Mobility Energy Emissions Diagnosis (MEED): a standardized approach to assess the environmental impacts of urban mobility in France D Verry, F Hasiak, CEREMA, FR</p> <p>EU-ETS versus CORSIA – a critical assessment of two approaches to limit aviation's CO2 emissions by market-based measures J Scheelhaase, S Maertens, W Grimme, German Aerospace Center (DLR), DE</p>
<p>Planning for Sustainable Land Use and Transport</p>		<p>Transit Oriented Development (TOD) Session Chair: Danielle Snellen, PBL Netherlands Environmental Assessment Agency, NL</p> <p>Before and after BRT: using remote sensing to measure impacts on urban growth patterns in Quito (Ecuador) and Cali (Colombia) L Eduardo Tafur Herrera, AECOM, US</p> <p>Assessment of trade-off between land use and sustainable transport in a port city C Giacomini, G Longo, E Padoano, Dept. of Engineering and Architecture - University of Trieste, IT</p> <p>A stated preference experiment into the trade-off between residential location, accessibility and commuting O Rubin, F Daalhuizen, F van Dam, PBL Netherlands Environmental Assessment Agency, NL</p> <p>Robustness of accessibility challenges to land use developments B Zondag, Significance; E Molenwijk, Rijkswaterstaat – WVL, NL</p>	<p>Travel Behaviour Session Chair: Alison Irvine, Transport Scotland, UK</p> <p>Societal drivers and future mobility trends - perspectives from the Norwegian context T Priya Uteng, Institute of Transport Economics (TOI); T S Thronsen, University of Oslo, NO</p> <p>Intermodal urban travel behaviour from user's perspective: empirical results R Oostendorp, L Gebhardt, German Aerospace Center, Institute of Transport Research, DE</p> <p>User characteristics, trip patterns and perception of E-Bicycle use in the Netherlands L Harms, J Berveling, KiM Netherlands Institute for Transport Policy Analysis, NL</p> <p>Baby on board: how life events impact mobility J Berveling, L Harms, KiM Netherlands Institute of Transport Policy Analysis; M-J Olde Kalter, Goudappel Coffeng, NL</p>
<p>Rail Policy and Planning</p>	<p>Reform Session Chair: Jon Tindall, Atkins, UK</p> <p>Poland ready for the Fourth Railway Package? K Bablinski, Warsaw School of Economics, PKP Intercity, PL</p> <p>Drivers of innovation in megaprojects: the role of complexity C Cantarelli, Sheffield University Management School, UK</p>	<p>New infrastructure: new passengers Session Chair: Stefan Sanders, Arup, UK</p> <p>Operational concept 2025+ for the Semmering Railway S Flucher, M Haberl, M Fellendorf, Graz University of Technology, AT</p> <p>Crossrail baseline evaluation L Miles, Arup, UK</p>	<p>Power Forecasting Session Chair: Neil Fleming, Department for Transport, UK</p> <p>Finding rail potential: methodology to predict rail ridership based on socio economic developments B de Keizer, M Peeters, Nederlandse Spoorwegen; N van Oort, Goudappel Mobility Consultants, NL</p> <p>Reliability in the Northern Powerhouse: an investigation into the potential economic benefits of improved reliability across the North of England's rail network T Pike, P Bugajski, Arup, UK</p> <p>Enhancing conventional rail demand models using a wider range of evidence from analysis of national travel survey data M Wardman, SYSTRA; P Connell, Leigh Fisher; B Patrui, RAND Europe, UK</p>

<p>Local Public Transport</p>	<p>Technical Visit Bus interchanges</p>	<p>Innovation Session Chair: Stephen Luke, Mott MacDonald, UK</p> <p>Planning for future transport: how to plan today for an uncertain future K Yeung, R Chung, S Bennett, Arup, UK Conditions for success in public transport innovations F Savelberg, S Moorman, P Bakker, KiM Netherlands Institute for Transport Policy Analysis, NL Supporting being mobile: how mobility APPs can improve individual mobility through sharing needs C Vogelauer, E Fuerst, Vienna University of Economics and Business, AT Joint macro- and microscopic modelling of pedestrian flows in train stations, with focus on train platforms B Kabalan, F Laurent, Z Christoforou, Ecole des Ponts ParisTech, FR</p>	<p>Fares, Ticketing and Customers Session Chair: András Munkácsy, KTI Institute for Transport Sciences Ltd., HU</p> <p>Effects of a higher ticket inspection rate: results of differentiated fare evasion rates in a medium sized public transport system S Keuchel, K Laurenz, Westphalian University, DE Public transport service and city-break tourism in Budapest M Jaszberenyi, K Asvanyi, Corvinus University of Budapest, Tourism Centre, HU Effectiveness of public transport social fares and special transport services in the Barcelona metropolitan area M Pérez Pérez, N Pérez-Sans, Institut d'Estudis Regionals I Metropolitans de Barcelona (IERMB), ES Evaluation of concessionary bus travel: the impact of the free bus pass L Georgiev, Department for Transport, UK</p>
<p>Freight and Logistics</p>	<p>Sustainable Urban Logistics Session Chair: Jan Francke, KiM Netherlands Institute for Transport Policy Analysis, NL</p> <p>Delivery points in the e-commerce last-mile: formalizing a network modelling I D Cardenas Barbosa, University of Antwerp, BE The path to development of sustainable urban logistics plans among Norwegian local authorities K Fossheim, J Andersen, O Eidhammer, Institute of Transport Economics, NO New and emerging data sources to address urban freight challenges J Zmud, Texas A&M Transportation Institute, US</p>	<p>Cargo Bikes in Urban Logistics Session Chair: Verena Ehler, DLR, DE</p> <p>Public sector facilitation of cargo bike operations T Ørving, K Fossheim, J Andersen, Institute of Transport Economics, NO Field tests and pilot projects as supportive instrument to foster the market deployment of mobility innovations: the Cargo Bike Case L Heinrich, W H Schulz, Zeppelin University, DE Beyond Mobility – cargo bike usage for urban freight transport A Anderluh, E Fürst, V Hemmelmayr, C Vogelauer, Vienna University of Economics and Business, AT</p>	<p>Sustainable Long Distance Transport Session Chair: Inge Vierth, VTI, SE</p> <p>Development of tools for the identification and implementation of environmental aspects and indicators in ports M Puig, R M Darbra, Universitat Politècnica de Catalunya, ES; C Wooldridge, Cardiff University, UK Longer heavy good vehicles in Germany "EcoCombis" or "climate killers"? A Labinsky, T Gutberlet, H-P Kienzler, Prognos AG; M Faltenbacher, S Eckert, thinkstep, DE Prospects for renewable marine fuels: the potential role of biofuels J Hansson, IVL Swedish Environmental Research Institute; S Brynolf, M Grahn, Chalmers University of Technology, SE</p>
<p>Transport Economics, Finance and Appraisal</p>	<p>Modelling Transport – Miscellaneous Session Chair: Oliver Charlesworth, Citilabs, UK</p> <p>The impact of various forms of flexible working on mobility and congestion estimated empirically H van der Loop, KiM Netherlands Institute for Transport Policy Analysis; R Haaijer, MuConsult; J Willigers, Significance, NL Congestion reduction by active transport modes: development of multimodal congestion assessment and its application in Lisbon C Walther, N Szabo, PTV AG Karlsruhe, DE; P Homem De Gouveia, Camara Municipal de Lisboa, PT Initial benchmarking of Highways England's regional maintenance spending A Spencer-Bickle, Office of Rail and Road, UK Ireland's Regional Modelling System - a set of tools to make appraisal easier B Colleary, National Transport Authority; G Bell, Jacobs; S Kearns, Systra, IE</p>		

<p>Transport Models Stream 1</p>	<p><u>Trip Generation Car Ownership</u> Session Chair: Dusica Krstic-Joksimovic, RWS, NL</p> <p>Ireland's Regional Modelling System - development of a new national car ownership model B Colleary, National Transport Authority, IE; D Siddle, Jacobs; D Connolly, Systra, UK</p> <p>Investigate household private car ownership and usage using Bayesian Dirichlet Mixture Model N Wu, S Zhao, Dalian University of Technology, CN</p> <p>Growth modelling of the transportation system in Nigeria for the purposes of supporting strategic planning J O Adegoke, M Srail, Birmingham City University, UK</p>	<p><u>Trip Generation</u> Session Chair: Erik Verroen, RWS, NL</p> <p>A methodology for measuring the relationships between land-use and population growth to evaluate future land-use and transport plans A Uteng, O J Kittilsen, Ramboll Norge AS; Ø L Nilsen, Ramboll Norge AS and Norwegian University of Science and Technology, NO</p> <p>Business location and sustainable transport A Smyth, University of Hertfordshire, UK; L Kelleher, University College Dublin, IE; C Heywood, Accent, UK</p> <p>How can we model travel frequency? a critical review of current practice K Jahanshahi, B Patrui, A Daly, RAND Europe, UK</p>	<p><u>Big Model Innovative Methods</u> Session Chair: Dusica Krstic-Joksimovic, RWS, NL</p> <p>Using multi-mode transport modelling in a national context to develop a new Zimbabwe National Transport Master Plan M Chan, P Davidson, H Porter, Peter Davidson Consultancy, UK</p> <p>Use of neural networks in transport models A Allos, X Li, J Key, D Dachs, Atkins, UK</p> <p>Ireland's Regional Modelling System - modelling parking within Ireland's cities B Colleary, National Transport Authority, IE; D Siddle, Jacobs, UK; D Bailey, Systra, IE</p>
<p>Transport Models Stream 2</p>	<p><u>Activity-Based Modelling</u> Session Chair: Elaine Seagriff, CH2M, UK</p> <p>Agent based transport modelling applied to one way car sharing H Porter, P Davidson, R Culley, Peter Davidson Consultancy, UK</p> <p>Planning the energy and mobility transition with modelling on demand B Bock, D Hosse, A Breymaier, Innovation Centre of Mobility and Sociatal Change (InnoZ), DE</p>	<p><u>Activity-Based Modelling</u> Session Chair: Peter Davidson, Peter Davidson Consultancy, UK</p> <p>Comparison of Hybrid 4-Step and activity-based models: example for Jerusalem, Israel G Vyas, P Vovsha, Parsons Brinckerhoff,US; D Givon, Jerusalem Transportation Master Team, IL</p> <p>COMPAS runs for autonomous vehicles scenarios G Vuk, Danish Road Directorate, DK</p> <p>Strategic demand model in Flanders using large-scale agent-based microsimulation: how to handle the results K Verlinden, Significance, NL</p> <p>A methodology to simulate travelers' behavior for modal choice using agent based modeling Md Ahanchian, Technical University of Denmark, DK; T Priya Uteng, Institute of Transport Economics (TØI), NO</p>	
<p>Transport Models Stream 3</p>			<p><u>Assignment Meso</u> Session Chair: Aurore Remy, TSS, ES</p> <p>Implementation and calibration of a large scale mesoscopic dynamic traffic model of Grenoble, France F Tshiteya, Cerema - Central-Eastern Division, N Ditchi, Cerema - Western Division, FR</p> <p>Testing of a demand matrix estimation method incorporating observed speeds and congestion patterns on the Dutch strategic model system using an assignment model with hard capacity constraints L Brederode, DAT.mobility/Delft University of Technology; F Hofman, RWS; R van Grol, Significance, NL</p> <p>Simulating the effect of dynamic tolling on traffic flows J Swanson, Steer Davies Gleave, UK</p>

<p>National Travel Surveys</p>	<p>National Travel Surveys Session Chair: Angel Aparicio, Technical University Madrid (UPM), ES</p> <p>Treatment and cleaning data in mobility surveys: the case of EMEF in the Barcelona metropolitan region M Perez, M Pons, E Queral, J Cátedra, IERMB (Institut D'Estudis Regionals I Metropolitans De Barcelona), ES</p> <p>Big country, big data, big transport efficiencies: a case study of remote transport in central Australia G Akers, Akers Consult, AU</p> <p>Decomposing the regional travel demand model J Mielczarek, R Kucharski, T Kulpa, Cracow University of Technology, PL</p>	<p>National Travel Surveys Session Chair: Jan Kiel, Panteia, NL</p> <p>Innovation of the Dutch National Travel Survey; implementation of the new design R Smit, Rijkswaterstaat, Water Traffic and the Environment; M Mol, Statistics Netherlands; J van der Waard, KiM Netherlands Institute for Transport Policy Analysis, NL</p> <p>User oriented web design implemented in Paris regional household survey A-E Meret-Conti, STIF, FR</p> <p>Creation of a national repository of data to support Ireland's Regional Modelling System B Colleary, National Transport Authority; G Hingerty, Jacobs; S Kearns, Systra, IE</p>	<p>National Travel Surveys Session Chair: Remko Smit, RWS, NL</p> <p>The impact of survey completion with a mobile device in a longitudinal transport study T Zijlstra, S Hoogendoorn-Lanser, K Wijgergangs, KiM Netherlands Institute for Transport Policy Analysis, NL</p> <p>MovingLab: mobility data acquisition with smart devices R Kelpin, DLR Institute of Transport Research, DE</p>
<p>Young Researchers' and Practitioners' Forum</p>			<p>A new generation of research combining innovative methods with practice and research Session Chairs: Ines Kawgan-Kagan, TU Berlin, DE; Elisa Pozo Menendez, Universidad Politécnica de Madrid; Mireia Gilibert, SEAT, ES</p> <p>Mathematical modelling of pedestrian route choices in urban areas using revealed preference GPS data E Hintaran, Atkins, UK</p> <p>Global design sprints: urban streets in the age of connected and autonomous vehicles A Rothnie, Buro Happold, UK</p> <p>Serious games: a playful approach to reduce usage barriers of innovative public transport systems A Koenig, DLR; J Wegener, University of Applied Studies and Research Harz; J Grippenkov, German Aerospace Center (DLR e.V.), DE</p>