

<p style="text-align: center;">Thursday 5 October Plenary session 0915 – 1000 Looking to the Future for Barcelona Chief Executive Transports Metropolitans de Barcelona</p>			
	<p>Session 4 1000 - 1130</p>	<p>Session 5 1200 - 1400</p>	<p>Session 6 1530 - 1730</p>
Value of Time	<p>Keynote presentation 1030 – 1130 Chair: Peter Davidson, Peter Davidson Consultancy, UK The value of time in the future Professor Mogens Fosgerau, DTU, 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 Modelling waiting time in transport models for ferry services: a case study of five fixed links in Norway 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 Defining a new mobility service: the marketing research approach F Santos, J Vieira, TIS, PT</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, VEDECOR; 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: 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: ISA - Intelligent Speed Adaptation; using technology to make roads safer P Shadbolt, Zeta Group, UK 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 Risk perception and accident experience 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>
Global Issues			<p>Emissions Session Chair: Janina Scheelhaase, DLR, DE 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 Mobility Energy Emissions Diagnosis (MEED): a standardized approach to assess the environmental impacts of urban mobility in France D Verry, F Hasiak, CEREMA, FR 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>
Planning for Sustainable Land Use and Transport	<p>Land Use Transport Interaction (LUTI) Session Chair: Barry Zondag, Significance, NL 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 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 A stated preference experiment into the trade-off between residential location, accessibility and commuting</p>	<p>Transit Oriented Development (TOD) Session Chair: Danielle Snellen, PBL Netherlands Environmental Assessment Agency, NL Barking Riverside Extension- transport investment supporting growth In East London L King, Transport for London, UK 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 Societal drivers and future mobility trends - perspectives from the Norwegian context T Priya Uteng, Institute of Transport Economics (TOI); T S Throndsen, University of Oslo, NO Intermodal urban travel behaviour from user's perspective: empirical results R Oostendorp, L Gebhardt, German Aerospace Center, Institute of Transport Research, DE User characteristics, trip patterns and perception of E-Bicycle use in the Netherlands L Harms, J Baveling, KiM Netherlands Institute for Transport Policy Analysis, NL</p>

	O Rubin, F Daalhuizen, F van Dam, PBL Netherlands Environmental Assessment Agency, NL		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
Rail Policy and Planning	Reform Session Chair: Jon Tindall, Atkins, UK Poland ready for the Fourth Railway Package? K Bablinski, Warsaw School of Economics, PKP Intercity, PL Bosnia and Herzegovina Railways: policy options for improving its effectiveness while harmonizing with EU requirements A Nunez, B El-Hifnawy, The World Bank, INT Drivers of innovation in megaprojects: the role of complexity C Cantarelli, Sheffield University Management School, UK	New infrastructure: new passengers Session Chair: Stefan Sanders, Arup, UK Effects of High-Speed Rail on international tourism demand indicators in Spain: a territorial analysis J L de la Campa Cascales, Universidad Politécnica de Madrid UPM, ES Operational concept 2025+ for the Semmering Railway S Flucher, M Haberl, M Fellendorf, Graz University of Technology, AT Crossrail baseline evaluation L Miles, Arup, UK	Power Forecasting Session Chair: Neil Fleming, Department for Transport, UK 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 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, Arup, UK 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
Local Public Transport	Technical Visit Bus interchanges	Innovation Session Chair: Stephen Luke, Mott MacDonald, UK Planning for future transport: how to plan today for an uncertain future 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	Fares, Ticketing and Customers Session Chair: András Munkácsy, KTI Institute for Transport Sciences Ltd., HU and Universidad Politécnica de Madrid, ES 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
Freight and Logistics	Sustainable Urban Logistics Session Chair: Jan Francke, KiM Netherlands Institute for Transport Policy Analysis, NL Delivery points in the e-commerce last-mile: formalizing a network modelling I D Cardenas Barbosa, University of Antwerp, BE Towards more sustainable last-mile deliveries? an empirical analysis of crowdsourced delivery practices J Bendul, Jacobs University Bremen, DE A new approach to sustainable urban logistics planning K Fossheim, J Andersen, Institute of Transport Economics, NO New and emerging data sources to address urban freight challenges J Zmud, Texas A&M Transportation Institute, US	Cargo Bikes in Urban Logistics Session Chair: Verena Ehler, DLR, DE Cargo Bike-Sharing and sustainable city logistics K Stark, Erfurt University of Applied Sciences; C Hille, Transport and Spatial Planning Institute, University of Applied Sciences Erfurt, DE 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: on the future of local public transport C Vogelauer, E Fuerst, Vienna University of Economics and Business, AT	Sustainable Long Distance Transport Session Chair: Inge Vierth, VTI, SE Development of tools for the identification and implementation of environmental aspects and indicators in ports M Puig, R M Darbra, Universitat Politecnica 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 Grahm, Chalmers University of Technology, SE
Transport Economics, Finance and Appraisal	Modelling Transport – Miscellaneous Session Chair: 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 Analysis of traffic levels and fatalities on European motorways NEW PAPER TITLE TO BE AGREED 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		
Transport Models Stream 1	Trip Generation Car Ownership Session Chair: Dusica Krstic-Joksimovic, RWS, NL 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 Investigate household vehicle ownership considering interdependent consumer preference N Wu, S Zhao, Dalian University of Technology, CN Growth modelling of the transportation system in Nigeria for the purposes of supporting strategic planning	Trip Generation Session Chair: Erik Verroen, RWS, NL 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 Business location and sustainable transport A Smyth, University of Hertfordshire, UK; L Kelleher, University College Dublin, IE; C Heywood, Accent, UK	Big Model Innovative Methods Session Chair: Dusica Krstic-Joksimovic, RWS, NL 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 Use of neural networks in transport models A Allos, S Brooks, D Dachs, Atkins, UK A Copula based joint model to capture the interaction between mode and departure time choices in urban trips

	J O Adegoke, M Srai, Birmingham City University, UK	How can we model travel frequency? a critical review of current practice K Jahanshahi, B Patrui, A Daly, RAND Europe, UK	S Seyedabrishami, A Rasa, Tarbiat Modares University, IR 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
Transport Models Stream 2	Activity-Based Modelling Session Chair: 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 Agent based transport modelling applied to one way car sharing H Porter, P Davidson, R Culley, Peter Davidson Consultancy, UK	Activity-Based Modelling Session Chair: Peter Davidson, Peter Davidson Consultancy, UK 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 COMPAS runs for autonomous vehicles scenarios G Vuk, Danish Road Directorate, DK Strategic demand model in Flanders using large-scale agent-based microsimulation: how to handle the results K Verlinden, Significance, NL A methodology to simulate behavior choice for modal shift by incorporating agent based modeling, system dynamics and policy developments Md Ahanchian, Technical University of Denmark, DK; T Priya Uteng, Institute of Transport Economics (TØI), NO	
Transport Models Stream 3			Assignment Meso Session Chair: 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 Incorporating big data in demand matrix estimation for congested areas in the Dutch strategic model system L Brederode, DAT.mobility/Delft University of Technology; F Hofman, R van Grol, Significance, NL Simulating the effect of dynamic tolling on traffic flows J Swanson, Steer Davies Gleave, UK
National Travel Surveys	National Travel Surveys Session Chair: Treatment and cleaning data in mobility surveys: the case of EMEF in the Barcelona metropolitan region M Pons, E Queralt, J Cátedra, IERMB (Institut D'Estudis Regionals I Metropolitans De Barcelona), ES Big country, big data, big transport efficiencies: a case study of remote transport in central Australia G Akers, Akers Consult; N Graves, Central Land Council, AU Decomposing the regional travel demand model J Mielczarek, R Kucharski, T Kulpa, Cracow University of Technology, PL	National Travel Surveys Session Chair: Jan Kiel, Panteia, NL 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 MovingLab: mobility data acquisition with smart devices R Kelpin, DLR Institute of Transport Research, DE User oriented web design implemented in Paris regional household survey A-E Meret-Conti, STIF, FR	National Travel Surveys Session Chair: Remko smit, RWS, NL The effect of mobile device use on data quality in longitudinal panel surveys S Hoogendoorn-Lanser, K Wijgergangs, T Zijlstra, KiM Netherlands Institute for Transport Policy Analysis, NL 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
Young Researchers' and Practitioners' Forum		Game changer in mobility and transport research Session Chair: Serious games: a playful approach to reduce usage barriers of innovative public transport systems A Koenig, J Wegener, University of Applied Studies and Research Harz; J Grippenkov, German Aerospace Center (DLR e.V.), DE The Hyperloop concept's economic fundamentals P Paczek, Kozminski University, PL New digital tools for transport design G Arzate, M Arzate, Universidad Autónoma Metropolitana – Azcapotzalco; S Gamboa, Instituto de Energías Renovables – UNAM, MX	A new generation of research combining innovative methods with practice and research Session Chair: Mathematical modelling of pedestrian route choices in urban areas using revealed preference GPS data E Hintaran, Atkins, UK Educating the next generation of transport professionals C Richardson, PTV Group, DE Global design sprints: urban streets in the age of connected and autonomous vehicles A Rothnie, Buro Happold, UK Creating places for people as Dutch University campus and partners H Westerweele, I Spape, E Turkenburg, NHTV, NL