

<p>Wednesday 4 October</p> <p>PLENARY SESSION Aula Magna 0930 - 1100</p> <p>Conference Opening Pierluigi Coppola, Chair of the Board, Association for European Transport Introduction to AET and ETC Conference arrangements Welcome from Barcelona City Council</p> <p>Keynote Address Olympic Urbanism changing cities: lessons from Barcelona Francesc Munoz Director, Observatori de la Urbanització Universitat Autònoma de Barcelona</p>			
	<p>Session 1 1130 - 1330</p>	<p>Session 2 1500 - 1630</p>	<p>Session 3 1700 1900</p>
<p>Connected and Autonomous Vehicles</p>	<p>Connected and Autonomous Vehicles Session Chair: Aurore Remy, TSS, ES</p> <p>Will self-driving cars impact the long term investment strategy for the Dutch National trunk road system? R Smit, Rijkswaterstaat Water, Traffic and Environment; H van Mourik, 4cast; M Pieters, Significance, NL Traffic modelling of self-driving vehicles S Frost, COWI, DK Simulating VANets with FLOURISH CCAV Project Speaker from, TSS, UK Flourish CCAV Insurance and Legal Report G Jackman, TSS, UK (on behalf of the Flourish Project/AXA)</p>	<p>Connected and Autonomous Vehicles Session Chair: Colin Chick, Independent Consultant, UK</p> <p>Roadmap for cooperative ITS in European cities M Cartwright, Centaur Consulting Ltd, UK Leading Innovation Timeline: basis for a strategy on traffic management in a changing ITS world R Jorna, R Kleine, Mobycon; L Hendriks, Rijkswaterstaat, NL What will autonomous cars do to the insurance companies? I Bojic, Massachusetts Institute of Technology; R Braendli, C Ratti, Allianz Group, US Civil liability in case of platooning by road W Verheyen, ESL/KULeuven/Odisee UC, BE</p>	<p>Connected and Autonomous Vehicles: big data Discussion chaired by Peter Davidson, Peter Davidson Consultancy, UK</p> <p>"Intelligent Highways, Intelligent vehicles, Intelligent Data, Intelligent Models?"</p> <p>The next 4 years of transport development and its implication for transport planning and modelling</p>
<p>Intelligent Mobility – Management and Operations</p>			<p>Traffic Management Session Chair: Session Chair: Samya Ghosh, AECOM, UK</p> <p>Analyzing the performance of piezo electrical cables for traffic and weight data collection on the national road network in Norway M F Böhm, E H Aakre, T Haugen, NTNU - Norwegian University of Science and Technology, NO Automatic transport network matching using deep learning M M Salvador, We Are Base/Bournemouth University; M Budka, Bournemouth University; T Quay, We Are Base, UK Is there an economical way to access hidden transport data to support seamless transport K Nur, T Gammons, Arup, UK Vehicle dynamics data collection to characterize the drivers' behaviour C Naude, T Serre, IFSTTAR; V Ledoux, Cerema, FR</p>
<p>Transport Economics, Finance and Appraisal</p>	<p>Application of Cost Benefit Analysis (CBA) Session Chair: Pauline Wortelboer, KiM Netherlands Institute for Transport Policy Analysis, NL</p> <p>Uncertainties in cost benefit analyses (CBA) of infrastructure projects: do they matter for project rankings? M Aarestrup Aasness, J Odeck, Norwegian University of Science and Technology and Norwegian Public Roads Administration, NO Contribution to the European discussion of project appraisal: the German FTIP 2030 case C Walther, PTV Planung Transport Verkehr AG and Bauhaus University Weimar; A Dahl, PTV Planung Transport Verkehr AG; V Wassmuth, PTV Transport Consult GmbH, DE Reliability in transport CBA: comparing and testing the consistency of the methods and their outcomes D Meunier, LVMT (UMR-T 9403, École des Ponts, IFSTTAR, UPEM, UPE); H Le Maitre, French Ministry of the Environment, Energy and the Sea, N Picard, THEMA (Université de Cergy-Pontoise), FR</p>	<p>Value of Timetable Changes and Reliability Session Chair: Luuk Brederode, Goudappel Coffeng, NL</p> <p>Estimation of the social costs of train delays in the Netherlands F Savelberg, P Warffemius, KiM Netherlands Institute for Transport Policy Analysis; E Kroes, Significance, NL Delay valuation in rail transport and train scheduling: a simple stylised model D Meunier, LVMT (UMR-T 9403, École des Ponts, IFSTTAR, UPEM, UPE); M Perez-Herrero, SNCF Réseau, FR Derivation of updated day to day variability relationships for major UK roads G Lovett, S Sirivadidurage, Mott MacDonald, UK The economic value of timetable changes E Kroes, Significance, NL; A Daly, ITS, University of Leeds, UK</p>	<p>Integrated Models and their Application Session Chair: Hermann Maier, Jacobs, UK</p> <p>Prioritising national infrastructure investment in a post-Brexit world D Simmonds, David Simmonds Consultancy, UK Forecasting the economic impacts of the Oxford to Cambridge Expressway J Swanson, J Cartmell, Steer Davies Gleave, UK A new integrated model to evaluate wider economic impacts of transport policies O Yilmaz, E Voyvoda, Middle East Technical University (METU), TR</p>

<p>Transport Economics, Finance and Appraisal</p>	<p>Funding Alternatives Session Chair: David Simmonds, David Simmonds Consultancy, UK</p> <p>Road investments and the trade-off between private and public funding M Welde, NTNU - Norwegian University of Science and Technology; S Brathen, J Rekdal, Moreforskning Molde AS, NO</p> <p>Alternative funding sources for transport infrastructure S Thomas, A Hildred, Oxera Consulting, UK</p>	<p>Special Cases in Appraisal Session Chair: Elaine Seagriff, CH2M, UK</p> <p>The value of iconic infrastructure projects: two Dutch case studies N Mouter, Delft University of Technology, NL</p> <p>Valuing cultural heritage – a willingness to pay study for removing a road within the Stonehenge World Heritage Site J Khan, Department for Transport; C Colborn, Highways England; R Lawton, Simerica, UK</p>	
<p>Planning for Sustainable Land Use and Transport</p>	<p>Transport and Cities Session Chair: Domi Esztergár-Kiss, Budapest University of Technology and Economics, HU</p> <p>Quantification of the emissions from personal mobility: estimation based on general mobility surveys M Perez, M Pons, E Domene, M Garcia, Institut D'Estudis Regionals I Metropolitans de Barcelona (IERMB), ES</p> <p>Door-to-door travel analysis method: travel time, reliability and user experience A de Koning, T Straatemeier, Goudappel Coffeng, NL</p> <p>Progress of implementing SUMP in Budapest: project selection, monitoring and evaluation and the role of macroscopic transport modelling M Juhasz, Szechenyi Istvan University; T Matrai, Budapest University of Technology and Economics; T Halmos, P Toth, BKK Centre for Budapest Transport, HU</p> <p>10 years of the Generated Mobility Assessment Studies X Sanyer, Metropolitan Transport Authority of Barcelona, ES</p>	<p>Equity Session Chair: Pierluigi Coppola, University of Rome "Tor Vergata", IT</p> <p>Modelling the health mobility for rational resource distribution policies D Gattuso, Università Degli Studi Mediterranea di Reggio Calabria; G Quattrone, Università Cattolica del Sacro Cuore (DISES), IT</p> <p>Equity challenges in major transport plans A Aparicio, Technical University Madrid (UPM), ES</p>	<p>Mode Shift Session Chair, Michael Bach, Independent Consultant, UK</p> <p>Potentials for energy and climate efficient passenger mobility: simulation of ambitious mode shift measures in the Ruhr metropolitan region M Müller, O Reutter, Wuppertal Institute for Climate, Environment and Energy, DE</p> <p>Shifting towards cycling in the Greater Stockholm area: a comparison between 2005-2006 and 2011-2013 C Liu, Swedish Road and Transport Research Institute, SE</p> <p>Commuting trips in the metropolitan area of Barcelona: travel behaviour, socio-environmental impacts and policy assessment M Perez-Perez, N Pérez-Sans, G Sole, Institut D'Estudis Regionals I Metropolitans De Barcelona (IERMB), ES</p> <p>The Mathilde bridge in Rouen - a study about the impact on mobility of a main road's closure in the center of an urban area M Savary, C Marchesse, D Savalle, Cerema, FR</p>
<p>Rail Policy and Planning</p>	<p>Forecasting Session Chair: Ben Condry, Imperial College London, UK</p> <p>An origin-destination based train station choice model M Verschuren, Nederlandse Spoorwegen, NL</p> <p>Development of integrated demand and station choice models for local railway stations and services M Young, S Blainey, University of Southampton, UK</p> <p>Understanding demand for rail travel in UK B Patrui, A Daly, C Rohr, RAND Europe; M Wardman, SYSTRA; P Connell, Leigh Fisher, UK</p> <p>A new timetable: from rough estimates to fact-driven insights from smartcard data N Guis, J Banninga, Nederlandse Spoorwegen; P Siderius, ProRail, NL</p>	<p>Serving Markets Session Chair: Charles Harmer, Crossrail, UK</p> <p>Train or bus? Travellers' perceptions of public transport modes: a qualitative analysis from a regional line D Dubois, E Perrin, C Hurez, Cerema Centre-Est, FR</p> <p>Passenger coverage and service sustainability: a time-cost model for the optimal choice of stops on a regional rail service F M M Cirianni, G Pavone, Regione Calabria, IT</p> <p>Comparison of rail commuting between 6 west European cities B Condry, Imperial College London, UK</p>	<p>Enhancing the Customer Experience Session Chair: Neil Fleming, Department for Transport, UK</p> <p>Passengers' assessments of thermal comfort in a railway car mock-up with displacement ventilation H-J Hoermann, J Maier, O Zierke, German Aerospace Center (DLR), Institute of Aerospace Medicine, Hamburg, DE</p> <p>The perfect train experience, from Engineering to Imagineering M van Hagen, E Ten Elsen, Nederlandse Spoorwegen, NL</p> <p>From customer insights to new services M van Hagen, J van der Made, Nederlandse Spoorwegen, NL</p> <p>Time valuations of rolling stock improvements F Teklu, M Wardman, R Maldonado, SYSTRA, UK</p>

<p>Local Public Transport</p>	<p>Governance Session Chair: Graham Ellis, Ellis Transport Services, UK</p> <p>The distance factor in Swedish bus contracts: how far are operators willing to go? A Vigren, VTI, SE</p> <p>Leading from the middle - Midlands Connect - the genesis of a sub-national transport body J Penrose, H Kelly, Department for Transport, UK</p> <p>A methodology for minimum services definition in Local Public Transport: Governance in Italian regional legislation F M M Cirianni, G Pavone, Regione Calabria; A S Luongo, Invitalia, IT</p> <p>Appraising the Bus Services Bill – lessons from the UK experience C McArdle, Department for Transport, UK</p>	<p>Innovation in Barcelona Session Chair: Niels van Oort, Goudappel Coffeng, NL</p> <p>TMB experience with CNG buses: main lessons learned J Ariño, TMB Transports Metropolitans de Barcelona, ES</p> <p>Opportunity charging of buses: effects on bus operator costs and user performance M A Estrada, Universitat Politècnica de Catalunya; J Mension, TMB, Transports Metropolitans de Barcelona, ES</p> <p>Use of Opendata information to develop accessibility indicators in public transport J Llinas Serrahima, Barcelona Regional, ES</p>	<p>Networks Session Chair: Iain Macbriar, QV Associates, UK</p> <p>Performance evaluation procedure for bus interchange areas J Mension, TMB; M Salicrú, University of Barcelona; M Estrada, Universitat Politècnica de Catalunya, ES</p> <p>Patterns of using public transport and its evolution trends in the world P Saeidzand, J Pourbaix, M Steriu, S Haon, UITP, INT</p>
<p>Global Issues</p>			<p>Plans Session Chair: Angel Aparicio, Technical University Madrid (UPM), ES</p> <p>Sharing experiences on Sustainable Urban Mobility Plans: the case of Lille Metropolitan area and the Algarve poly-centric region O Heddebaut, IFSTTAR-AME-DEST, FR; E Arsenio, LNEC Department of Transport; J Coelho, Comunidade Intermunicipal do Algarve, PT</p> <p>Business models for innovative mobility services in Nordic cities O Langeland, T-E Julsrud Transport Economics Institute, NO; S Sarasini, RISE Viktoria, SE</p> <p>Concept development of sustainable workplace mobility plans D Esztergár-Kiss, T Tettamanti, Budapest University of Technology and Economics, HU</p>
<p>Freight and Logistics</p>	<p>Aggregate Freight Transport Modelling Session Chair: Erik Verroen, RWS, NL</p> <p>Development of a multimodal transport chain choice model for container transport for BasGoed M de Bok, Significance, G de Jong, Significance, L Tavasszy, Delft University of Technology, NL</p> <p>TRIMODE freight & logistics model of Europe I Williams, TRT/Ian Williams Services; M Garratt, C Wright, MDS Transmodal, UK</p> <p>An exploration of freight transport forecasts for The Netherlands with BasGoed M de Bok, Significance; J Kiel, Panteia; J Francke, KiM Netherlands Institute for Transport Policy Analysis, NL</p> <p>The internalisation of short-term marginal external costs of sea transport I Vierth, Swedish National Road and Transport Research Institute (VTI), SE</p>	<p>Logistics Issues Session Chair: Helen Porter, Peter Davidson Consultancy, UK</p> <p>Grocery stores as attractors of transport demand: theoretical and empirical approaches to explain store location from agent interaction B Heldt, T Matteis, I Frenzel, German Aerospace Center, DE</p> <p>Who are the European modal shift champions? J Francke, O Jonkeren, J Visser, KiM Netherlands Institute for Transport Policy Analysis, NL</p> <p>Impact of higher maximum weights for lorries on modal split - ex-post analysis for Sweden I Vierth, S Lindgren, H Lindgren, Swedish National Road and Transport Research Institute (VTI), SE</p>	<p>Transport Law Issues Session Chair: Graham Ellis, Ellis Transport Services, UK</p> <p>Towards a legal model for horizontal cooperation in logistics W Verheyen, ESL/KULEUVEN/Odisee UC, BE</p> <p>Logistics systems and the use of the contract of carriage to circumvent the labour protection law C Tincani, University of Verona, IT</p> <p>Relationship between transport law and insurance law A Vermes, Széchenyi István University, HU</p> <p>Evaluating the liability of road carriers in Hungarian law with respect to international tendencies A Szegedi, Széchenyi István University, HU</p>

<p>Transport Models Stream 1</p>	<p>Big Data Session Chair: Olga Feldman, Arcadis, UK</p> <p>Developing public transport OD matrices from GPS and smartcard data - a test of the method's validity against household data from Tbilisi L Chittock, S Callighan, B Mackley, Mott MacDonald, UK</p> <p>Recent developments of big data in the Dutch national model: study with mobile phone data D Joksimovic, Dutch Ministry of Infrastructure and the Environment; K Friso, DAT.Mobility; J Keij, Mezero, NL</p> <p>Fusing mobile network data with mobility data for Transport for London's Project Edmond C Wroe, Telefonica; S Rutherford, Jacobs; P Hanson, R Tolouei, AECOM; A Inayathusein, Transport for London, UK</p> <p>Validation of floating car data for transport policy analysis and transport models H van der Loop, KiM Netherlands Institute for Transport Policy Analysis; M Kouwenhoven, Significance; P van Bekkum, MuConsult, NL</p>	<p>Big Data OD Session Chair: Paul Hanson, AECOM, UK</p> <p>Trip matrix development using mobile phone data: what have we learnt so far and what are the key principles to follow? R Tolouei, AECOM, UK</p> <p>Correcting variable sample rates in trip matrices derived from Automatic Number Plate Recognition cameras: a Python based simulation approach B Mackley, T van Vuren, Mott MacDonald, UK</p> <p>A hybrid gravity modelling approach for trip matrix synthesis S Psarras, R Prince, R Tolouei, AECOM, UK</p>	<p>Cycling Innovation Session Chair: András Munkácsy, Research Centre for Transport Development, HU</p> <p>Updating of the Copenhagen traffic model with respect to bicycle transport G Vuk, A Tønning, Danish Road Directorate, DK</p> <p>Advanced demand data collection techniques when modelling for cyclists in Chelmsford P Vilarino, Jacobs, ES; C Kelen, G Christie, Jacobs UK</p> <p>Modelling propensity to cycle as a policy tool N Raha, SYSTRA; D Christie, Transport for London; A Gordon, Mott MacDonald, UK</p> <p>Development of an enhanced active modes model for transportation by electric bicycle in the Netherlands N Groot, F Hofman, E Verroen, Rijkswaterstaat; L Harms, Netherlands Institute for Transport Policy Analysis; H van Mourik, E Tetteroo, Dutch Ministry of Transport and the Environment; M Pieters, J Willigers, Significance, NL</p>
<p>Transport Models Stream 2</p>	<p>Connected and Autonomous Vehicles Session Chair: Aurore Remy, TSS, ES</p> <p>Will self-driving cars impact the long term investment strategy for the Dutch National trunk road system? R Smit, Rijkswaterstaat Water, Traffic and Environment; H van Mourik, 4cast; M Pieters, Significance, NL</p> <p>Traffic modelling of self-driving vehicles S Frost, COWI, DK</p> <p>Simulating VANets with FLOURISH CCAV Project Speaker from, TSS, UK</p> <p>Flourish CCAV Insurance and Legal Report G Jackman, TSS, UK (on behalf of the Flourish Project/AXA)</p>	<p>Short term AI and Deep Learning Session Chair: Gav Jackman, TSS, UK</p> <p>Model-based short term predictor of traffic states L Suijs, Goudappel Coffeng; L Wismans, L Brederode, Dat.mobility, NL</p> <p>Real time short term traffic prediction for a regional MIDAS network based on a neural network prediction algorithm A Narh, C Goves, P Bate, Transport Systems Catapult, UK</p>	<p>Assignment Session Chair: Aurore Remy, TSS, ES</p> <p>Development of an agent based simulation framework for public bus operations for improving arrival reliability Md A Ramli, V Jayaraman, Institute of High Performance Computing, A*STAR; K H Chee, SMRT Buses Ltd, SG</p> <p>The assessment of Transit Oriented Developments using microsimulation models E Ruxton, T Tanoz-Sargeant, AECOM, UK</p> <p>Improving consideration of redundancy of itineraries in introducing a logsum of utilities – application in global v9 C Derome, RATP, FR</p>