

EUROPEAN TRANSPORT CONFERENCE: 9 – 11 SEPTEMBER 2020

Programme Wednesday 9 September


Plenary session from 0900 hours CEST 0800 hours BST

Opening of the conference

Prof. Pierluigi Coppola, Chair of the Board, Association for European Transport

Stream	Session 1 1000 hours CEST (0900 hours BST)	Session 2 1300 hours CEST (1200 hours BST)	Session 3 1530 hours CEST (1430 hours BST)
Special Sessions	<p>Women and Men - aren't we all equal? Session Chair, Ines Kawgan-Kagan, AEM Institute, DE</p> <ol style="list-style-type: none"> <i>Gendered commuting and complexities of activity patterns in Germany</i> by Bhuvanachithra Chidambaram, TU Dortmund University Unveiling the Women's Needs as Users of Urban Railway and Bike Sharing Services: the H2020 DIAMOND Project by Rawad Choubassi (Systematica), Andrea Gorrini (Systematica), Wafaa Saleh (Edinburgh Napier University), Augustus Ababio-Donkor (Edinburgh Napier University), Maria Chiara Leva (TU Dublin), Lorraine D'Arcy (TU Dublin), Ludovico Boratto (Eurecat), Pablo Aragón (Eurecat), David Laniado (Eurecat), Francisco Santarremigia (AITEC), Elena Garcia (AITEC) <i>Gendered Cycling Promotion through Urban Interventions</i> by Esraa Elesawy (University of Grenoble) <i>How to increase the share of female users of innovative mobility solutions</i> by Ines Kawgan-Kagan (AEM Institute) 		<p>Transport Planning Society Special Session Session Chair: Tim Morton, Transport Planning Society Growing and improving transport planning skills in Europe. Presentations and discussion The Transport Planning Society is the professional body for transport planners in the UK and Ireland, with members also resident in other countries. <ol style="list-style-type: none"> Transport Planning as a profession and the role of Professional Bodies by Stephen Bennett – Chair, Transport Planning Society Transport Planning skills development in the UK and Ireland by Keith Buchan - Skills Director, Transport Planning Society Planning transport is the most fascinating and challenging job - not just to facilitate the efficient movement of people and goods, but also to ensure that transport serves society's ever changing expectations of social fairness, economic growth, environmental protection, air quality improvement and pursuit of a net zero carbon footprint. Transport planners need to be aware, adaptable and agile, as well as having technical understanding and expertise. Hear how these vital skills are being developed in the UK and join in an exploration of experience across Europe. We plan to continue the discussion in 2021 to build up a comprehensive picture of how transport planning is regarded and developed in different countries and what we can learn from each other going forward, but get involved now!</p>
Global Trends impacting Transport	<p>FUTURE DEMAND FOR TRANSPORT Session Chair: Jan Kiel, Panteia, NL Projecting global land-based transportation up to 2100 S Seum, C Eisenmann, DLR, DE On the Move: a faster way to a lower carbon future (6740) E Robertson, K Hall, SYSTRA, UK The future of transport – competition and how it will be delivered in the future F Castignetti, A Distefano, P Guglielminetti, V Massacci, PWC, IT How are (online) shopping and car use related? an investigation based on attitudinal survey data L Bönisch, B Chlond, Karlsruhe Institute of Technology (KIT), DE</p>	<p>FUTURE UNCERTAINTY Session Chair: Conall Mac Aongusa, Transport and Innovation, IE Modelling uncertainties in the Dutch National Models for freight and passenger transport J Kiel, Panteia; J Spruijt, Rijkswaterstaat, NL CO2 requirements and labelling for cars: lessons from EU product and building legislation P Hodson, European Commission Joint Research Centre, NL The impact of weather and climate change on passenger transport in the Netherlands: a literature review for policy makers O Jonkeren, KiM Netherlands Institute for Transport Policy Analysis, NL</p>	<p>PUBLIC ATTITUDES Session Chair: Antonio Lobo, University of Porto, PT Research on community preferences towards the Heathrow Community Compensation Fund R Pinto, W Gasson, Department for Transport, UK Exploring public attitudes to Connected and Autonomous Vehicles J Baverstock, Department for Transport, UK Impact evaluation of the implementation of automated road transport with regard to sustainable transport objectives in cities. First results of stakeholder workshops in European cities K Gade, J Schuppan, DLR, DE</p>
Planning for Sustainable Land Use and Transport	<p>LAND-USE TRANSPORT INTERACTION Session Chair: Farshid Kamali, Atkins, UK Age inequalities of accessibility to essential urban services. The case study of primary health care in the city of Milan for older adults G Carpentieri, C Guida, University of Naples Federico II, IT Reducing private-car-demand, fact or fiction? Results from a study mapping changes in accessibility to grocery stores in Norway L Sve Rokseth, Norwegian University of Science and Technology (NTNU); E Aukrust Hauglin, The Oslo School of Architecture and Design (AHO); T Nordström, Norwegian University of Science and Technology (NTNU) / Spacescape AB; B Manum, Norwegian University of Science and Technology (NTNU), NO Strategies of private stakeholders for enhancing railway stations in peri-urban areas: focus on real estate professionals S Hasiak, V Baudry, Cerema Hauts de France, FR Urban structure and public transport competitiveness in small and medium-sized cities (7040) A Tennøy, K Visnes Øksenholt, Institute of Transport Economics, Norwegian Centre for Transport Research, NO</p>	<p>ACCESSIBILITY Session Chair: Michael Bach, Independent Consultant, UK A new perspective on assessing accessibility H Voerknecht, D Bussche, H Tromp, Een nieuwe kijk, NL Introducing a composite index of multi-modal travel opportunity, conceptualisation and application in Hertfordshire, UK H Gumble, AECOM, UK Modelling intermodal and multimodal workplace accessibility - findings from the EMMA project M Pfertner, B Büttner, G Wulforst, Technical University of Munich, DE</p>	
Rail Policy and Planning	<p>COMPETITION BETWEEN MODES Session Chair: Francis Cirianni, University of Reggio Calabria, IT The competition in the passenger railway transport O Špetík, Masaryk University, CZ The long haul transport market evolution: could the railways versus Flixbus competition result in a less satisfied demand? A Avenali, M Gregori, P Reverberi, Sapienza University of Rome, IT On the modal shift from motorway to high-speed rail: evidence from Italy M Borsati, University of Trento, IT; D Albalade, University of Barcelona, ES</p>	<p>CONTRACTS Session Chair: John Siraut, Jacobs, UK Modelling incentive mechanisms in the rail industry - an instrumental variables approach A Marsden, Department for Transport, UK The state as a rail 'operator of last resort': questions of efficiency, effectiveness and public policy for the UK and beyond A Smyth, Transport Analysis and Advocacy Ltd; E Humphreys, Independent Rail Consultant, UK</p>	<p>EXPERIENCE Session Chair: Josie Drath, Arup, UK Development of an innovative train using evidence-based design M van Hagen, NS, NL; M Stirnberg, Zweckverband Nahverkehr Westfalen-Lippe, DE; N Dogterom, Goudappel Coffeng, NL; R Au Future sustainable mobility – moved by design P Eckart, K Vöckler, Offenbach University of Art and Design, DE The first and last mile seen from an integrated urban structure and public transport perspective - an empirical study of public transport competitiveness in different sized cities in Norway M Knapkog, A Tennøy, F Wolday, Institute of Transport Economics, NO</p>

<p>Local Public Transport</p>	<p>SUSTAINABILITY Session Chair: Charles Rivasplata, San Jose State University, US e-Mobility as a keystone for climate change in the city of Offenbach A Georgi, NiO - Nahverkehr in Offenbach GmbH, DE Dealing with a hybrid fleet - what happens when your fixed route service uses both electric and diesel vehicles D Joshua, Optibus, IL</p>	<p>HUBS AND MICRO-MOBILITY Session Chair: András Munkácsy, KTI, HU eHUBS - smart shared green mobility hubs G Bösehans, D Dissanayake, M Bell, N Thorpe, University of Newcastle, UK Testing micromobility: experiences of a pilot mobility point and a shared mobility zone in Budapest P Toth, A Munkácsy, A Vágány, KTI Institute for Transport Sciences, HU Travellers' preferences towards existing and emerging means of access/egress transport B Stam, H J Van Strijp-Harms, Witteveen+Bos; N Van Oort, S C Van Der Spek, S P Hoogendoorn, TU Delft, NL Understanding the impacts of shared mobility: the case of ridehailing services in Mexico City T Hernandez Amezcua, C Mullen, G Mattioli, Z Wadud, ITS, University of Leeds, UK</p>	<p>PLANNING Session Chair: Iain Macbriar, QV Associates, UK Mobility and public transport during major sport events. – an applied case for level of service indicators F Cirianni, G Leonardi, Mediterranean University of Reggio Calabria; M Cecere, CSI Engineering, IT Can Citizens' Assemblies help local areas make difficult transport decisions? a case study from Greater Cambridge I Wade, Greater Cambridge Partnership, UK Voluntary work in the domain of local public transport: a means to foster mobility? E Fürst, WU Vienna; P C Huber, Hilfgemeinschaft, AT</p>
<p>Freight and Logistics</p>	<p>MODEL OD Session Chair: Hanno Friedrich, Kühne Logistics University, DE Forecasting delivery O-D flows through AVM data: experimental results A Comi, A Nuzzolo, A Polimeni, University of Rome Tor Vergata, IT Freight for trade: do we have enough data to analyse? G Tenekeci, Jacobs, UK Case study of freight traffic projection in 2030 in the south east of France C-E Allier, C Bariou, Cerema, FR A novel approach to estimate road freight distribution based on commodity types S Psarras, R Tolouei, AECOM; A Gray, S Tolofari, Leicestershire County Council, UK</p>	<p>MODEL MODE Session Chair: Jan Francke, KiM Netherlands Institute for Transport Policy Analysis, NL Development of energy transition scenarios in the strategic freight model BasGoed B Wesseling, M de Bok, Significance; J Spruijt, Rijkswaterstaat; O Usmani, T van Bree, TNO, NL The tactical freight simulator in HARMONY: a decision support tool to explore urban logistics in 2030 M de Bok, S Thoen, Significance; L Tavasszy, I Kourounioti, TU Delft, NL Simulation model for a vessel platooning transport system L N Boukani, University of Antwerp, BE</p>	<p>MODEL ROUTING Session Chair: Hanno Friedrich, Kühne Logistics University, DE Taking a short-cut: impact of integration agreements on route and mode choice in northeast India and Bangladesh G de Jong, Significance, NL and ITS Leeds, UK; M Sharma, R Mittal, M Pratap, PWC, IN; M Kouwenhoven, Significance and Delft University of Technology, NL; G van Eck, Y Araghi, Significance, NL; M Herrera Dappe, M Abate, The World Bank, INT A Meet and Regret heuristic for the dynamic vehicle synchronization problem with soft time windows B Turan, A Anderluh, WU Vienna; B Biesinger, P Nolz, AIT Vienna, AT A new tool for nationwide freight traffic assignment A Rabinowicz, H Slavin, Caliper Corporation, US Large infrastructure projects: assessment of construction traffic (7015) D Paddon, Jacobs, UK</p>
<p>Young Researchers' and Practitioners' Forum</p>		<p>GENDER AND DIVERSITY IN TRANSPORT Session Chair: Eka Hintaran, Tyréns, UK Ines Kawgan-Kagan, Mobility Consultant, DE Socio-demographic influence on crash data: the advancement of spatial analytical methodologies F Tainter, M Knodler, University of Massachusetts Amherst, US Reimagining movement and the transport appraisal process in the United Kingdom through a gendered lifecycle approach K Pearce, S Francis, Jacobs, UK</p>	
<p>Intelligent Mobility - management and operations</p> <p>Sponsored by</p> 	<p>CONNECTED AND AUTONOMOUS VEHICLES Session Chair: Henk Taale, Rijkswaterstaat, NL What changes will occur in the road hierarchy with the introduction of autonomous and connected vehicles? T B Barbosa, J P Tavares, University of Porto, PT Shared autonomous cargo bike fleets – a better solution for future mobility than shared autonomous car fleets? T Assmann, E Matthies, S Schmidt, Otto-von-Guericke University, DE</p>	<p>CONNECTED AND AUTONOMOUS VEHICLES Session Chair: Luc Wismans, Goudappel Coffeng, NL A future without drivers? Three perspectives on hopes and fears associated with (the idea of) autonomous vehicles M Karlsson, L-O Bligård; F Ekman; M Johansson; H Strömberg; C Bergstad, E Martins Silva Ramos, Chalmers University, SE Autonomous mobility: a review of the benefits and drawbacks A Rezaei, S Dunny, AECOM, UK and IE; B Caulfield, Trinity College Dublin, IE</p>	<p>RIDE SHARING Session Chair: Susie Kerry, Transport for London, UK A model to describe the cause-effect connections of on-demand mobility concepts K K Viergutz, E Grass, F Brinkmann, DLR, DE SHARESIM - a discrete event simulator to evaluate carsharing system performances T Giacchetti, L Zamberlan, S Carrese, M Nigro, Roma Tre University, IT; S Bastos, Mechanical Engineering consultant, BR; F d'Andreagiovanni, National Center for Scientific Research (CNRS) and Sorbonne Universités, Université de Technologie de Compiègne, CNRS, FR Business modelling public-private partnerships for the shared mobility market: the case of the shared mobility hub E Coenegrachts, University of Antwerp, BE Connectivity and regulation: the opportunities and challenges of micromobility G Buxton, WSP, UK; H Harrami, N Papakatsikas, WSP, SE; T Nguyen, WSP, AU; N Roberts, WSP, CA; S Sood, WSP, NZ</p>
<p>Transport Economics, Finance and Appraisal</p>	<p>COST BENEFIT Session Chair: Elisabete Arsenio, LNEC, PT Cost-benefit analysis: (numerical) comparison of consumer surplus computation methods (6687) A Nuzzolo, P Beria, Politecnico di Milano, IT Measuring and assessing the resilience impacts of transport schemes S Hinds, Deloitte; A Charlesworth-May, I Stead, Department for Transport, UK Politically contested projects: what CBA can do for the debate and what cannot M Ponti, F Ramella, Bridges Research ONLUS; R Parolin, TRT Srl; P Beria, Politecnico di Milano; A Drufoa, Polinomia Srl, IT Active travel investment modelling F Quelch, Department for Transport; L Sloman, Transport for Quality of Life, UK Can Cost Benefit-Analysis help transport policy decisions? the debate on the Turin-Lyon base tunnel J Massiani, Università Milano Bicocca, IT</p>	<p>SOCIAL VALUE IMPLICATIONS IN APPRAISAL AND COST-BENEFIT ANALYSIS Session Chair: Mattias Juhasz, Trans-Sport Consulting, HU Social impacts of tax incentives to reduce transport emissions D Berthold, M-Five GmbH; A Dahl, PTV AG, DE French policy of reducing the speed limit from 90 to 80 km/h: how to assess social effects? V Buttignol, CEREMA, FR Changing the rules for scheme appraisal – valuation of social impacts – a case study G Smith, G Tenekeci, Jacobs, UK The application of subjective wellbeing-based valuations in transport appraisal L Pagden, E Muers, Department for Transport; Simebrica, UK</p>	<p>EVALUATION Session Chair: Rimón Rafiah, Economikr, IL User attitudes towards congestion charging - the case of Oslo cordon toll system M A Aasness, NPRA/NTNU, NO How did the French PAC incentive scheme perform in 2019? M Niay, M Jolly, General Commission for sustainable development; D Meunier, LVMT, FR Establishing a monitoring and evaluation framework for Transport for the North: a research project C Higgins, S Quinlan, Jacobs, UK</p>
<p>Transport Models</p>	<p>AGENT BASED MODEL APPLICATION Session Chair: Wolfgang Scherr, Swiss Federal Railways (SBB), CH</p>	<p>AGENT BASED MODEL TECHNICAL DEVELOPMENT Session Chair: Laurence Chittock, PTV, UK Dealing with uncertainty - investigation of the stability of ABM outputs F Shone, K Kozłowska, S Billings, Arup, UK</p>	<p>NEW APPROACHES IN TRANSPORT MODELLING Session Chair: Bruno Villé, MINT, BE HARMONY model suite: an integrated spatial and multimodal transport planning tool to lead a sustainable transition to a new mobility era</p>

<p>Sponsored by</p>  <p>the mind of movement</p>	<p>Application of agent-based simulation to support real-world business cases in public transport and intermodal service planning W Scherr, J Bischoff, P Bützberger, Swiss Federal Railways (SBB), CH</p> <p>Planning for net zero transport: a road map for development of operational activity-travel models, a discussion paper in the UK context S Khorgami, P Hanson, AECOM, UK</p>	<p>Micro behaviour validation of strategic agent based transport models K Kozłowska, F Shone, S Billings, Arup, UK</p> <p>Synthetic population for Sweden: comparison of different methods P Almstrom, Trafikverket; L Engelson, KTH, The Royal Institute of Technology, SE; G Vyas, P Vovsha, INRO, US</p> <p>Comparisons of traditional econometric models and Machine Learning (ML) methods in the context of travel choices and perspectives for synergy P Vovsha, G Vyas, INRO, US</p>	<p>M Kamargianni, L Yfantis, M Chaniotakis, P Dimitris, University College London - MaaSLab, UK; F Fermi, A Martino, TRT Trasporti e Territorio, IT; F D Lopane, M Batty, University College London - CASA, UK; M de Bok, L Tavasszy, Delft University of Technology, NL; A Tsirimpa, MobyX Software, CY; I Tsouros, A Polydoropoulou, University of the Aegean, GR; P Georgakis, A Salas, University of Wolverhampton, UK; T Djukic, Aimsun, ES; E Bothos, B Magoutas, Institute of Communication and Computer Systems, GR</p> <p>How can the promise of new data and new modelling techniques support transport decision making for the societal challenges and opportunities we face? Transport for West Midlands' approach to developing a new transport model for the region A Watt, H Ursell, Transport for West Midlands, UK</p> <p>The end of the 4-stage model is nigh L Willumsen, Nommon-Kineo Mobility Analytics, ES and UK</p> <p>Challenging transport model assumptions – an Australia/New Zealand multi-city analysis J Richardson, Jacobs, AU</p>
<p>System Dynamics</p>	<p>URBAN MOBILITY Session Chair: Gillian Harrison, ITS, University of Leeds, UK</p> <p>Systems Thinking (ST) and System Dynamics (SD) approach as a methodology supporting long-term impacts of a transport system: tramways in middle-sized cities; Bolzano as a case study A Bassi, KnowlEdge Srl, IT and International Institute for Sustainable Development (IISD), CH; S Susani, NET Group; G Acciaro, NET Engineering SpA; M Valle, STA - Strutture Trasporto Alto Adige SpA, IT</p> <p>Mobility in metropolitan and peripheral regions - an educational simulation game L Hartwig, P Pfaffenbichler, J Stark, University of Natural Resources and Life Sciences, AT</p>	<p>FUTURE MOBILITY Session Chair: Jonatan Gomez-Vilchez, European Commission, Joint Research Centre (JRC), INT</p> <p>Modelling governance and sustainability of a tradable transport permit scheme G Harrison, S Shepherd, C Mullen, University of Leeds, UK</p> <p>Developing a System Dynamics tool for robust policy-making in an uncertain mobility future M Eriksson, N Papakatsikas, M Berglund, C Malmström, D van Amelsfort, WSP, SE</p> <p>Barriers and enablers for integrated mobility solutions - a qualitative systems analysis based on narrative interviews A Gühneemann, V Baltzarek, R Hössinger, BOKU Vienna; M Berger, A Soteropoulos, TU Vienna; S Stagl, M Schabka, WU Vienna; R Hackl, tbw Research; A Neumann, netwiss, AT</p>	<p>DECARBONISATION Session Chair: Astrid Gühneemann, BOKU Vienna, AT</p> <p>Stagnant CO2 emissions and car manufacturers' behaviour J J Gomez Vilchez, G Fontaras, European Commission, Joint Research Centre (JRC), INT</p> <p>Fleet and transport system impacts of the diffusion of driverless and electric trucks A Engholm, C Andruetto, A Pernestål, ITRL, IT</p>