

**EUROPEAN TRANSPORT CONFERENCE: 13 – 15 September 2021**  
Programme Tuesday 14 September

Stream	Session 4 1000-1200 hours CEST	Session 5 1300-1500 hours CEST	Session 6 1600-1800 hours CEST
Global Trends impacting Transport	<p><b>COVID-19 SHORT-TERM SOLUTIONS</b> <b>Session Chair:</b> <b>Impact of the Covid-19 pandemic on the automotive industry in Baden-Wuerttemberg and its supply chains</b> B Frieske, German Aerospace Center (DLR) - Institut of Vehicle Concepts; S Stieler, IMU Institute, DE <b>Managing the mobility demand: the coresponsibility of companies</b> X Sanyer, Metropolitan Transport Authority of Barcelona, ES <b>Transport for London: Managing demand in a global pandemic</b> L Gibson, E Herreras-Griffiths, Transport for London, UK <b>Towards a short to medium term mitigation strategy to address the external air and sea connectivity challenges posed by the COVID-19 Pandemic for Northern Ireland</b> A Smyth, Transport Analysis and Advocacy; N Dennis, University of Westminster; M O'Reilly, Economist, UK</p>	<p><b>COVID-19 LONG-TERM SOLUTIONS</b> <b>Session Chair:</b> <b>The impact of COVID-19 on travel behaviour in London and implications for strategic aims</b> H Groot, L Bradshaw, Transport for London, UK <b>Changes in citizen transportation behavior as a result of the Covid-19 pandemic</b> M Bauer, Cracow University of Technology, PL <b>Acceptance of autonomous vehicles in light of the COVID-19 effects on mobility</b> M Miskolczi, M Jászberényi, Corvinus University of Budapest; A Munkácsy, KTI Institute for Transport Sciences; D Földes, Budapest University of Technology and Economics, HU</p>	<p><b>ACTIVE TRAVEL OPTIONS (joint session with Planning for Sustainable Land Use and Transport)</b> <b>Session Chair:</b> <b>Does active transport lead to improved mood and productivity? A panel study of travel changes during the Covid-19 lockdown in Norway</b> A Fyhri, A Ciccone, K Karlsen, C Papaix, Institute of Transport Economics, NO <b>Multiple benefits of active mobility on people and the environment (and how we achieve them)</b> N Hodzic-Srndic, K Raunig Austria Tech, AT <b>Cycling level as a function of crime and violence</b> T Matrai, J H Oliveira da Cruz, Budapest University of Technology and Economics (BME), HU</p>
Young Researchers' and Practitioners' Forum	<p><b>COVID-19 AND THE CONSEQUENCES</b> <b>Session Chair:</b> <b>The impact of COVID-19 on changes in community mobility and variation in transport modes in New Zealand</b> M Sheng, B Sharp, The University of Auckland, NZ <b>The impact of the COVID-19 crisis on travel behavior of students</b> M Tuscher, WU Vienna, AT <b>Post-lockdown mode-shift scenarios for commuting in the Peninsula Region</b> A Roser, AECOM, UK</p>	<p><b>TOWARDS NET ZERO EMISSIONS</b> <b>Session Chair:</b> <b>Electric vehicle charging loads: the impact of heterogeneity in travel demand and driving behavior</b> C Gschwendtner, A Stephan, ETH Zurich, CH <b>Free-flow carsharing systems in a spatio-temporal urban ecosystem: an urban informatics approach</b> F Messa, Systematica, D Deponete, Systematica, IT <b>Promising transport policy measures</b> D E C Blomjous, H D Hilbers, Netherlands Environmental Assessment Agency (PBL), NL</p>	<p><b>SUSTAINABLE MOBILITY</b> <b>Session Chair:</b> <b>Would you be better off switching to a sustainable mobility lifestyle partly based on electric mobility?</b> R Hoerler, Zurich University of Applied Sciences; T Stoiber, University of Basel, CH <b>Analysis of shared e-scooter usage in Portugal to contribute to sustainable urban mobility planning</b> G J Cabral Dias, P J Gomes Ribeiro, University of Minho; E Arsénio, LNEC Department of Transport, PT <b>Conceptual development of the logistics chain flow of container transport within the Rhine-Alpine corridor</b> P Shobayo, E van Hassel, B Atasoy, T Vanelander, A Nicolet, University of Antwerp, BE</p>
Planning for Sustainable Land Use and Transport	<p><b>INCLUSION: AGE AND GENDER</b> <b>Session Chair:</b> <b>Considering children's travel needs: perceptions of transport planning professionals in Ireland</b> S McDonagh, Jacobs; S Rock, TU Dublin, IE <b>Active school travel index</b> D Melsom, R Chan, V Ismaili, Arup, UK <b>Mapping gender inequalities within urban environments: the case of Naples (Italy)</b> C Gargiulo, G Carpentieri, C Guida, University of Naples Federico II, IT <b>Invisible women - about the need to bridge the gender data gap and start including women in transport and mobility planning</b> M Weinreich, Ramboll, DK</p>	<p><b>INCLUSIVE TRANSPORT SYSTEMS</b> <b>Session Chair:</b> <b>When Digital Mobility Solutions – DMS- contribute to a more sustainable, equitable or efficient transport system? first results of INclusive Digital MObility solutions -INDIMO H2020 EU project</b> F Di Ciommo, G Rondinella, A Kilstein, cambiaMO   changing MObility ES; Y Shifan, M Spektor, Technion - Israel Institute of Technology, IL; W Vanobberghen, Vrije Universiteit Brussel, BE <b>Why a tram and not an e-scooter? innovative (collective) transport planning strategies are not enough for just mobility in Brussels Capital Region</b> C Assaf, P Van den Broeck, KU Leuven, BE <b>Gender equality and social inclusion approach to cycle masterplanning: planning for a more inclusive, accessible, and resilient Ankara, Turkey</b> H Ratilainen, Arup, NL; N Altinel, Arup, TR <b>Walking for everyone – taking steps towards addressing inequality</b> S Claris, M-Y Man Oram, M Bennett, Arup, UK</p>	<p><b>LONGER TERM EFFECTS OF COVID ON TRAVEL BEHAVIOUR</b> <b>Session Chair:</b> <b>How the Covid-19 pandemic changes daily commuting routines – Insights from the German mobility panel</b> L Ecke, M Magdolen, B Chlond, P Vortisch, Karlsruhe Institute of Technology, DE <b>Exploring the relationship between the impacts of the COVID-19 pandemic and changes in travel behaviour: a qualitative study</b> M Cao, University of Westminster and Bartlett School of Planning, University College London, UK <b>Working from Home after Covid-19: impact on how housing preferences, work practices and travel behaviour</b> D Snellen, PBL, NL</p>
Local Public Transport	<p><b>CURRENT ISSUES AND OUTLOOK</b> <b>Session Chair:</b> <b>Inference of multimodal and dynamic origin-destination (od) matrices from incomplete smart-card data: a case study in the city of Lisbon</b> S Cerqueira, R Henriques, INESC-ID and Instituto Superior Técnico, University of Lisbon; E Arsenio LNEC, Department of Transport, PT <b>The future of urban public transport systems in the UK: developing a tangible vision and roadmap</b> D McCool, D Melsom, Arup, UK <b>Willingness-to-pay on new rural mobilities by the elderly</b></p>	<p><b>EMERGING MODES</b> <b>Session Chair:</b> <b>Opportunities and potentials of Mobility-as-a-Service after the COVID-19 pandemic</b> K K Viergutz, B Frieske, B Scheier, DLR, DE <b>User experiences with automated shuttles: evidence from a large-scale survey in The Netherlands</b> M J Olde Kalter, A F Scheltes, M Ozturker, Goudappel, NL <b>Modal share of public transport: you cannot manage what you cannot measure</b> T Strommer, A Munkacsy, D Foldes, KTI Institute for Transport Sciences, HU</p>	<p><b>INCLUSIVE MOBILITY</b> <b>Session Chair:</b> <b>The mobility divide index co-design for the accessibility measurement of public transport systems</b> M Bagnasco, C Repetto, T Bridge SpA, IT; F Brinkmann, DLR - Deutsches Zentrum für Luft- und Raumfahrt e.V., DE; L Alčiauskaitė, ENIL - European Network on Independent Living, BE <b>Shared mobility services – an accessibility assessment from the perspective of people with disabilities</b> A Goralzik, A König, German Aerospace Center, Institute of Transportation Systems, DE; L Alčiauskaitė, European Network on Independent</p>

	<p>K Dong Young, J S Chang, Seoul National University, KR</p> <p><b>Quality inclusion criteria for rural public bus service contracts</b></p> <p>M Rojo, H Gonzalo, University of Burgos, ES</p>	<p><b>Replacing a group of local fixed bus routes by a DRT service</b></p> <p>M Pellot, J Mension, I Serra, Transports Metropolitans de Barcelona (TMB), ES</p>	<p>Living, BE; T Hatzakis, Trilateral Research Limited, IE</p> <p><b>Changing the city: do tramways deliver? the case of the Casablanca and Rabat-Salé Tramways</b></p> <p>T Delahais, Quadrant Conseil, FR; A Baanders, Independent Consultant, NL; P Bossard, Systra, FR; A Chèvre, Agence Française de Développement, FR</p> <p><b>Queer Mobility: comparison of objective and subjective drivers of LGBT+ travel behaviour and implications for planning inclusive transport systems</b></p> <p>R Adams, L Stack, Atkins, UK</p>
Rail Policy and Planning	<p><b>COMPETITION (joint session with Transport Economics, Finance and Appraisal)</b></p> <p><b>Session Chair:</b></p> <p><b>The seeds of competition in long-distance rail transport: comparing the early open-access countries</b></p> <p>P Beria, Politecnico di Milano, IT; V Pařil, M Kvasnička, Masaryk University, CZ; S Tolentino, V Lunkar, Politecnico di Milano, IT</p> <p><b>What is the real power of incumbents? case study on the Czech Republic</b></p> <p>J Chini, M Kvizda, O Špetík, Masaryk University, CZ</p> <p><b>When market opening reverses – comparative analysis of public transport policy of multiple Central and Eastern European countries</b></p> <p>V Oszter, B Ács, KTI Institute for Transport Sciences, HU</p> <p><b>The impact of low-cost high-speed rail on aviation</b></p> <p>E Kroes, E P Kroes Beheer B.V.; J Kiraly, Research Consultant Sustainable Mobility, NL</p>	<p><b>DEMAND FORECASTING</b></p> <p><b>Session Chair:</b></p> <p><b>Developing a gravity model for elasticity estimation in the rail industry</b></p> <p>A Marsden, Department for Transport, UK</p> <p><b>Generalised journey time research: new evidence and sensitivities for rail forecasting in the UK</b></p> <p>R Maldonado, F Teklu, M Wardman, SYSTRA; P Wheat, A Stead, Institute for Transport Studies, University of Leeds; D Howard, Passenger Demand Forecasting Council, UK</p> <p><b>An improved understanding of rail commuter responses to prolonged periods of worsened punctuality</b></p> <p>E Mills, F Teklu, M Wardman, R Maldonado, SYSTRA; D Howard, Passenger Demand Forecasting Council, UK</p>	<p><b>FUTURE RAIL STRATEGY</b></p> <p><b>Session Chair:</b></p> <p><b>Fair-sustainable rail transport. the case of the Ionian line in Calabria</b></p> <p>D Gattuso, G C Cassone, D S Pellicanò, M Malara, Mediterranea University of Reggio Calabria, IT</p> <p><b>How to segment psychological preferences of train passengers?</b></p> <p>M van Hagen, NS, NL</p> <p><b>Rail 2030: a foresight exercise for assessing mobility, freight and territory development in Portugal</b></p> <p>M M Tao, University of the Algarve, PT</p> <p><b>The UK's Union Connectivity Review</b></p> <p>A Smyth, Transport Analysis and Advocacy Ltd; E Humphreys, Independent Rail Consultant; L Allison, University of Westminster, UK</p>
Freight and Logistics	<p><b>SOLUTIONS FOR URBAN LOGISTICS</b></p> <p><b>Session Chair:</b></p> <p><b>Smart curbside management for urban freight operations</b></p> <p>M D Simoni, KTH Royal Institute of Technology, SE</p> <p><b>Opportunities for cargo bike-sharing in urban logistics</b></p> <p>A Sutaria, J Beckers, I D Cardenas Barbosa, T Vanelslender, University of Antwerp, BE</p> <p><b>Providing route advice for urban goods vehicles</b></p> <p>F Russo, Mediterranea University of Reggio Calabria; A Comi, University of Rome Tor Vergata, IT</p>	<p><b>SUSTAINABILITY AND CLIMATE SOLUTIONS</b></p> <p><b>Session Chair:</b></p> <p><b>Driving the uptake of alternative fuels infrastructure for freight and logistics – a regional strategy by Midlands Connect (UK)</b></p> <p>M L Domingues, Atkins; S Scarrott, Midlands Connect; F Worthy, CENEX, UK</p> <p><b>Quantifying the regional economic consequences of climate change by assessing its effect on logistics and transport infrastructures</b></p> <p>L Eiserbeck, A Labinsky, O Lühr, Prognos AG, DE</p> <p><b>Evaluation of train formation processes in rail freight yards</b></p> <p>D Haalboom, M Krauth, TU Dresden, DE</p> <p><b>An economic view on rerouting railcars in a single wagonload network to avoid congestion</b></p> <p>M Krauth, D Haalboom, TU Dresden, DE</p>	<p><b>MARITIME AND PORTS OF THE FUTURE</b></p> <p><b>Session Chair:</b></p> <p><b>Maritime freights scenarios in the Mediterranean Sea, based on innovative ships' technologies: forecasts through gravity model and simulation approach</b></p> <p>D Gattuso, G C Cassone, D S Pellicanò, Mediterranea University of Reggio Calabria, IT</p> <p><b>Analysing trends towards the Dutch port policy note</b></p> <p>M van der Horst, M Kansen, S Moorman, Netherlands Institute for Transport Policy Analysis (KIM), NL</p> <p><b>Fourth-generation ports in the Euro-Mediterranean region: scenario for Northern and Southern range</b></p> <p>F Russo, G Musolino, Università Mediterranea di Reggio Calabria, IT</p> <p><b>Southern vs Northern European gateway competition: Rotterdam and Gioia Tauro attribute comparisons</b></p> <p>F Russo, C Rindone, Università Mediterranea di Reggio Calabria, IT</p>
Intelligent Mobility - management and operations			<p><b>NEW MOBILITY (joint session with Transport Models)</b></p> <p><b>Session Chair:</b></p> <p><b>Longitudinal analysis of in-vehicle GPS data for traffic speed prediction</b></p> <p>A Sayegh, C Karlsson, A Feeney, R Tolouei, AECOM; Q Feng, Department for Transport, UK</p> <p><b>Carsharing and ridesharing models of driverless vehicles</b></p> <p>S Faruque, A Fonzone, G Fountas, Edinburgh Napier University, UK</p> <p><b>Simulation-based traffic assessment of a connected automated driving function</b></p> <p>M V Baumann, H S Buck, P Vortisch, Institute for Transport Studies, KIT; S Ehrhardt, Institute of Human and Industrial Engineering, KIT; M Roschani, Fraunhofer Institute of Optronics, System Technologies and Image Exploitation, DE</p> <p><b>Analysis of capacity and flow correlations at meso-scope level with inclusion autonomous vehicles</b></p> <p>Md T Bilal, S Sarwar, University of Genoa, IT</p> <p><b>Evaluation of heterogeneous traffic stream via macroscopic fundamental diagram for a quantified penetration rate of autonomous vehicles</b></p> <p>Md T Bilal, D Giglio, University of Genoa, IT</p>

<p><b>Transport Economics, Finance and Appraisal</b></p>	<p><b><u>COMPETITION (joint session with Rail Policy and Planning)</u></b>  <b>Session Chair:</b>  <b>The seeds of competition in long-distance rail transport: comparing the early open-access countries</b>  P Beria, Politecnico di Milano, IT; V Pařil, M Kvasnička, Masaryk University, CZ; S Tolentino, V Lunkar, Politecnico di Milano, IT  <b>What is the real power of incumbents? case study on the Czech Republic</b>  J Chini, M Kvizda, O řpetik, Masaryk University, CZ  <b>When market opening reverses – comparative analysis of public transport policy of multiple Central and Eastern European countries</b>  V Oszter, B Ács, KTI Institute for Transport Sciences, HU  <b>The impact of low-cost high-speed rail on aviation</b>  E Kroes, E P Kroes Beheer B.V.; J Kiraly, Research Consultant Sustainable Mobility, NL</p>	<p><b><u>APPRAISAL METHODOLOGY I</u></b>  <b>Session Chair:</b>  <b>Non-traffic benefits appraisal at A303 Stonehenge</b>  P Willis, E Gordon Smith, Highways England, UK  <b>A303/A358 corridor appraisal</b>  P Willis, R Hetherington, J Payne, Highways England, UK  <b>Appraisal of various models of shared mobility hubs</b>  E Coenegrachts, J Beckers, T Vanelslander, A Verhetsel, University of Antwerp, BE</p>	<p><b><u>APPRAISAL METHODOLOGY II</u></b>  <b>Session Chair:</b>  <b>Connected and automated vehicles – a partial solution to congestion?</b>  R Rafiah, Economikr, IL; S Landau, EBP-US, US  <b>An inconsistency in the European Union guidelines for Cost-Benefit Analysis of investment projects</b>  J Massiani, Università Milano Bicocca, IT  <b>GDP impact and economic analysis of Dhaka Chittagong Expressway: the case of Bangladesh</b>  S Akter, ACE Consultants Ltd., BD</p>
<p><b>Transport Models</b></p>	<p><b><u>MODE CHOICE</u></b>  <b>Session Chair:</b>  <b>Difference-in-differences and fixed-effects models in transport</b>  E Kroes, E P Kroes Beheer B.V.; J Kiraly, Research Consultant Sustainable Mobility, NL  <b>Improving the modelling of regional and urban public transport in the Dutch National Model System</b>  J Willigers, J G Tuinenga, B Zondag, Significance, NL</p>	<p><b><u>USING STRATEGIC MODELS</u></b>  <b>Session Chair:</b>  <b>The risks of transport model development. the case of Stravem</b>  J Kiel, Panteia; R van Grol, Significance; W van der Hoeven, TDIMCO, NL  <b>Scheme interaction assessment technique</b>  M Sanca, C Drury, Department for Transport, UK  <b>Evolution of Transport for London’s traffic modelling guidance documents in response to London’s changing environment</b>  L Beeston, R Blewitt, Transport for London, UK  <b>Post-processing transport modelling results: a necessity or a no-go?</b>  J Kiel, Panteia BV, NL</p>	<p><b><u>NATIONAL MODELS</u></b>  <b>Session Chair:</b>  <b>Implementation of a fully disaggregate agent-based travel model for Sweden</b>  S Berglund, P Almström, Swedish Transport Administration; L Engelson, D Salhgren, Swedish Transport Administration and Linköping University, SE; P Vovsha, G Vyas, D Florian, A Grapperon INRO, CA  <b>Growth Model 4: the new Dutch national passenger transport model</b>  R Smit, Rijkswaterstaat, Dutch Ministry of Infrastructure and Water Management; B Zondag, Significance, NL  <b>Speeding up England’s NTM: tactics for making large models run more quickly</b>  P Sumner, S Law, Department for Transport, UK</p>
<p><b>Transport Models</b></p>			<p><b><u>NEW MOBILITY (joint session with Intelligent Mobility - management and operations)</u></b>  <b>Session Chair:</b>  <b>Longitudinal analysis of in-vehicle GPS data for traffic speed prediction</b>  A Sayegh, C Karlsson, A Feeney, R Tolouei, AECOM; Q Feng, Department for Transport, UK  <b>Carsharing and ridesharing models of driverless vehicles</b>  S Faruque, A Fonzone, G Fountas, Edinburgh Napier University, UK  <b>Simulation-based traffic assessment of a connected automated driving function</b>  M V Baumann, H S Buck, P Vortisch, Institute for Transport Studies, KIT; S Ehrhardt, Institute of Human and Industrial Engineering, KIT; M Roschani, Fraunhofer Institute of Optronics, System Technologies and Image Exploitation, DE  <b>Analysis of capacity and flow correlations at meso-scopic level with inclusion autonomous vehicles</b>  Md T Bilal, S Sarwar, University of Genoa, IT  <b>Evaluation of heterogeneous traffic stream via macroscopic fundamental diagram for a quantified penetration rate of autonomous vehicles</b>  Md T Bilal, D Giglio, University of Genoa, IT</p>
<p><b>DATA</b></p>			<p><b><u>THE CLIMATE EMERGENCY</u></b>  <b>Session Chair:</b>  <b>Advancing multimodal transport resilience assessment: a case study in the city of Lisbon</b>  J Tiago Aparício, R Henriques, INESC-ID, Instituto Superior Técnico, Universidade de Lisboa; E Arsenio, LNEC I.P., Department of Transport, PT  <b>Spot the private hire: using machine learning to identify private hire vehicles from camera data</b>  A Dahn, A Madaan, Arup, UK</p>

<p><b>SYSTEM DYNAMICS</b></p>	<p><b><u>SYSTEM DYNAMICS APPLICATIONS FOR TRANSPORT HEALTH AND SAFETY</u></b>  <b>Session Chair:</b>  <b>Impact of transport policies to commuter safety in a developing country using system dynamics: the case of Metro Cebu, Philippines</b>  F L Mayo, E B Taboada, University of San Carlos, PH  <b>The role of new data and technologies in transport related health</b>  G Harrison, S Grant-Muller, F Hodgson, University of Leeds, UK</p>	<p><b><u>SYSTEM DYNAMICS APPLICATIONS FOR SUSTAINABLE URBAN MOBILITY</u></b>  <b>Session Chair:</b>  <b>Assessing the contribution of modal choices towards carbon free urban transport in Helsinki, Finland - an exploratory modelling approach</b>  H Wiman, A Tuominen, J Mesimäki, S Innamaa, P Ylén, M Penttinen, VTT Technical Research Centre of Finland Ltd., FI  <b>Modelling the transition dynamics of the socio-technical urban mobility system</b>  V V Georgatzi, Y Stamboulis, University of Thessaly, GR  <b>Applications of a new mobility System Dynamics tool</b>  N Papakatsikas, WSP Sverige AB, SE</p>	
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