

EUROPEAN TRANSPORT CONFERENCE: 13 – 15 September 2021

Programme Monday 13 September

Stream	Session 1 1000-1200 hours CEST	Session 2 1300-1500 hours CEST	Session 3 1600-1800 hours CEST
Global Trends impacting Transport	<p>COVID-19 IMPACTS Session Chair: Effects of the COVID 19 pandemic on mobility and transport mode choice T Hagen, M Sunder, E Lerch, S Saki, Frankfurt University of Applied Sciences, DE Has the Covid-19 pandemic caused people to commute less sustainably? Evidence from Switzerland based on two 2020 employee travel surveys at the School of Engineering of Zurich University of Applied Sciences M Stiebe, Institute of Sustainable Development (ZHAW SoE), CH Effects of the COVID19 pandemic on mode choice patterns during official lockdown period in Bangladesh S Hossain Iqra, S Islam, A Sabiha Huq, Bangladesh University of Engineering and Technology, BD The viability of public transport operations in South Africa during an epidemic: a study of the Gauteng Department of Roads and Transport response to Covid-19 pandemic K Muronga, P Binda; L Kwange; F Masuku, CSIT South Africa, ZA</p>	<p>COVID-19 CURRENT INSIGHTS Session Chair: Jan Kiel, Panteia, NL The impact of COVID-19 and policy measures on commuting in the Netherlands H Taale, Rijkswaterstaat and Delft University of Technology; M-J Olde Kalter, Ministry of Infrastructure and Watermanagement; R Haaijer, C Damen, MuConsult, NL All Change? Tracking travel behaviour, attitudes and social impacts during and following the COVID-19 pandemic in the UK C Davie, M Drake, Department for Transport, UK No way back after Covid 19? F S Hoen, W Ma, T Tørset, Norwegian University of Science and Technology, NO How COVID-19 is changing the travel behaviour? a panel survey in Italy E Sottile, G Tuveri, F Piras, I Meloni, University of Cagliari, IT</p>	<p>COVID-19 CITY CASES Session Chair: Vladimir Momčilović, University of Belgrade, RS Climate change challenges in the metropolitan mobility system of Barcelona L Alegre, ATM, ES Linking travel patterns and electric mobility – shaping the transition for Hamburg K Rosenberger, Hamburg University of Technology, DE; R Tapia, Universidade Federal do Rio Grande do Sul, BR; H Friedrich, Kühne Logistics University, DE Reallocation of roadspace on the Glasgow motorway network R Grandji, F Brown, Transport Scotland; L Murray-Zmijewski, E Barr, Jacobs, UK How to model the mobility impacts of the COVID-19 in Budapest R Netto de Souza, T Mátrai, Budapest University of Technology and Economics (BME), HU</p>
Young Researchers' and Practitioners' Forum	<p>INCLUSION AND DIVERSITY IN TRANSPORT Session Chair: Building barriers through bias? establishing measures to tackle unconscious bias in transport V Heald, WSP, UK Women on wheels: a Dublin based research into gender and cycling G Grigoli, C Cahill, R Egan, S Ginanne, Systra, IE Gendered barriers to travel: moving from understanding to action K Pearce, S Francis, Jacobs, UK How to ensure the provision of social inclusive public transport bus services? a strategic case study in Lisbon H A Sacoor, LNEC I.P. and ISCTE; E Arsenio, LNEC I.P.; E Cardoso, ISCTE; J Barateiro, LNEC. I.P., PT</p>	<p>DATA AND INCLUSIVE MOBILITY Session Chair: The effective/sustainable representativeness of data collection approach for inclusive mobility A Thimnu, M Chiara Leva, L D'Arcy, M Kinahan, A Lohmore, Technological University Dublin, IE Multi-perspective view on challenges for deploying inclusive and accessible digital mobility and logistics services I Keseru, H Delaere, S Basu, Vrije Universiteit Brussel, BE How to bring the city closer to people? using spatial network analysis to create a 15-minute city S Nalaskowska, Wedderburn Transport Planning, UK</p>	<p>BIG DATA TRANSPORT MODELLING Session Chair: Development and application of a large-scale geospatial analysis tool for informed safety investment A Ryan, C Ai, C Fitzpatrick, M Knodler, University of Massachusetts Amherst, US Predicting travel mode choice using machine learning and multinomial logit H Falih, PTV Group/University of Wollongong Dubai, DE and UA; K Noekel, PTV Group, DE Clustering urban areas based on GPS trajectories and geospatial data S Saki, Frankfurt University of Applied Sciences, DE</p>
Planning for Sustainable Land Use and Transport	<p>SUSTAINABLE TRANSPORT: CARBON REDUCTION Session Chair: Roadmaps for decarbonising transport in the UK by 2050 G Lyons, Mott MacDonald; C Rohr, RAND Europe; A Curry, School of International Futures, UK Midlands Connect carbon quantification S Statham, R van Barr, Midlands Connect; P Byron, C Tuinea, P Mistry, WSP, UK Tackling the decarbonisation challenge head on – Surrey's fourth Local Transport Plan and beyond L Bloomer, T Macmillan, Atkins (SNC-Lavalin Group), UK The practical challenges of assessing the carbon impact of transport interventions M Page, P Bowes, A White, M Crouch, West Yorkshire Combined Authority, UK</p>	<p>MOVING TOWARDS SUSTAINABLE TRANSPORT Session Chair: Electric cities – variation in ownership of electric vehicles across the UK J Fox, B Patrui, Z Hernández, RAND Europe; S Marinker, Powerscourt, UK How can behavioural science increase the uptake of Electric Vehicles? C Senese, J Solomon, P Corcoran, P Dyson, Department for Transport, UK Factors that influence everyday leisure travelers' mode choice and perceptions of mode switching E Strömblad, Lund University, SE Sustainable urban mobility plan from European rules to real implementations: the Italian study case F Russo, C Rindone, Università degli Studi Mediterranea di Reggio Calabria, IT</p>	<p>STRATEGIC TRANSPORT PLANNING FOR A SUSTAINABLE FUTURE Session Chair: How does a housing crisis become a transport problem? J Clift, S Bhatnagar, A Turner, Transport for London, UK Regional transport decarbonisation - assessing the future policy gaps in an uncertain world J Snape, M Smith, K Gera, Transport for the North, UK Forecasting for the delivery of Scotland's transport strategy and climate change ambition S Cragg, Transport Scotland; D Simmonds, David Simmons Consultancy; R Cann, AECOM, UK</p>
Rail Policy and Planning		<p>RAIL APPRAISAL (joint session with Transport Economics, Finance and Appraisal) Session Chair: Economic development impacts of peripheral stations K Godfrey, J Siraut, Jacobs, UK Social equity in high-speed railway projects in Italy and Portugal: mapping key policy and practical lessons E Venezia, University of Bari Aldo Moro, IT; E Arsenio, LNEC, Department of Transport, PT Enhancing links between rail scheme design and appraisal to better meet customer, economic, society and environmental needs J Drath, Arup, UK</p>	<p>COVID-19 AND TRAVEL BEHAVIOUR Session Chair: Covid-19 and train travel behavior M van Hagen, M de Bruyn, V Severens, NS; D Ton, D Duives, N van Oort, TU Delft, NL Analysing 'Twitter Conversation' to assess passengers' sentiment of public transport usage in London: the case of the COVID19 Pandemic F Messa, D Presicce, A Gorrini, G Ceccarelli, D Deponte, Systematica, IT Social distancing on public transport: how to measure it and the impact on space planning A Lopez Garcés, J Nicoll, Jacobs, UK</p>
Freight and Logistics	<p>TRANSPORT EVALUATION MODELS FOR SUPPORTING LOGISTICS (joint session with Transport Models) Session Chair: Decarbonising last mile road freight for sustainable connected places P Franco, D Kaba, F Galatioto, Connected Places Catapult, UK</p>	<p>SMART LAND FREIGHT TRANSPORT Smart consumer-oriented urban logistics B Borgström, M Sundström, Malmö University, SE Container shortages in Asia and possible solutions for management of empty containers in distribution network of a logistics company under uncertainty N Hoang, Quy Nhon University, VN</p>	<p>FREIGHT FORECASTING (joint session with Transport Models) Session Chair: A simulation model for eHighway systems – the electrification of heavy road freight transport with contact lines M Werner, A Stephan, Technische Universität Dresden (TUD), DE</p>

	<p>Forecasting freight flows in times of crises J Francke, J Visser, KiM Netherlands institute for transport policy analysis (KiM); A Burgess, R Houkes, Panteia, NL</p> <p>Business-economic evaluation of the VT concept for the Danube case study E Moschouli, E van Hassel, L Nanway Boukani, T Vanelslander, M Thury, C Sys, A Coling, R Hekkenberg, University of Antwerp, BE</p>	<p>Road Safety Improvement Programme for large manufacturing organisations R Seth, Logistics Safety Strategist, IN</p>	<p>Efficiency gains derived from autonomous trucks in container terminals - a VISSIM simulation study P Zimmerman, S Schmitt, R Fiedler, S Willrodt, I Völkel, Fraunhofer Center for Maritime Logistics and Services, DE</p> <p>Route choice modelling for freight vehicles: an approach based on floating car data A Comi, A Polimeni, University of Rome Tor Vergata, IT</p>
Intelligent Mobility - management and operations	<p>TRAFFIC MANAGEMENT AND ROAD SPACE Session Chair: Redesign of urban roads in Europe considering all road uses P Anciaes, P Jones, University College London, UK</p> <p>Innovation in tackling air quality using real-time decision support in Oxfordshire G Economidies, Oxfordshire County Council; R Leigh, Earthsense; G Jackman, Aimsun, UK</p> <p>City2Navigation (C2N): digitalisation of traffic management and linkages with private navigation systems C Schürmann, D Geiger, TCP International; P Lubrich, BASt, DE</p> <p>Making real-time traffic modelling a reality for the City of York J Guilliat, City of York Council; M Oliver, PTV Group; M Crouse, Wood Group, UK</p> <p>Two-level real time adaptive traffic signal control with reinforcement learning S Maadi, S Stein, J Hong, R Murray-Smith, University of Glasgow, UK</p>	<p>ELECTRIFICATION Session Chair: COVID-19 impact on light electric mobility E Cosso, C Repetto, T Bridge S.p.A, IT</p> <p>Estimating the impact of standing e-scooters, micromobility with micro effects? G Alberts, N van Oort, E Arends, B van Wee, J A Annema, P Kole, TU Delft and A T Osborne, NL</p> <p>Factors for the design of electric road system networks related to road operation, construction and vehicle characteristics J K Wilke, R Linke, F Schöpp, M Boltze, TU Darmstadt, DE</p> <p>Evaluation of the UK's Introduction of Rental E-scooters A Badzic, J Davies, J Atkinson, E Elster, Department for Transport, UK</p>	<p>PERCEPTIONS AND BEHAVIOURS Session Chair: Exploring factors influencing the willingness to use a mobility management travel app F Piras, G Tuveri, E Sottile, I Meloni, University of Cagliari, IT</p> <p>Explaining heterogeneity in consumers' preferences towards owning, sharing, and riding Autonomous Vehicles P Coppola, F De Fabiis, Politecnico di Milano; F Silvestri, Università di Roma Tor Vergata, IT</p> <p>The potential impact of Mobility as a Service (MaaS) on health J Krantz, H Ratilainen, Arup, NL</p>
Transport Economics, Finance and Appraisal	<p>VALUE OF TIME Session Chair: Estimating values of time from revealed preference data J Fox, RAND Europe, UK; P Ó Súilleabháin, Irish National Transport Authority; W Brazil, Irish National Transport Authority and Trinity College Dublin, IE</p> <p>Congested values of travel time M Sanca, M Clark, B Jamieson, Department for Transport, UK</p> <p>How does the value of time vary with income? C Cheyney, Department for Transport, UK</p>	<p>RAIL APPRAISAL (joint session with Rail Policy and Planning) Session Chair: Economic development impacts of peripheral stations K Godfrey, J Siraut, Jacobs, UK</p> <p>Social equity in high-speed railway projects in Italy and Portugal: mapping key policy and practical lessons E Venezia, University of Bari Aldo Moro, IT; E Arsenio, LNEC, Department of Transport, PT</p> <p>Enhancing links between rail scheme design and appraisal to better meet customer, economic, society and environmental needs J Drath, Arup, UK</p>	<p>UNCERTAINTY I Session Chair: Measuring and assessing the resilience impacts of transport schemes A Charlesworth-May, W Rennicks, Department for Transport, UK</p> <p>Capturing the long-term value of transport investments J Nellthorp, M Ojeda-Cabral, ITS, University of Leeds; I Stead, Jacobs, UK</p>
Transport Models	<p>MODELLING THE PANDEMIC Session Chair: Rapid pandemic scenario modelling with pandemic activity modifier I Song, F Shone, E Dahan, T Chatzioannou, Arup, UK</p> <p>Applicability of machine learning models in short and medium-term public transport ridership forecasting of pandemic travel behavior S Rasca, K D Abeyrathna, K Markvica, University of Agder, NO</p> <p>Evaluation of social distancing interventions together with vaccinations against COVID-19 using mesoscopic simulator I Orenstein, Y Levi, B H N Biran, Ariel University, IL</p> <p>Microsimulation modelling of an NHS Scotland drive-through COVID-19 vaccination site using Vissim R Coulthart, Sweco, UK</p>	<p>ACTIVITY-BASED MODELLING Session Chair: Pivot point procedure in the Compass Activity-Based Model for Copenhagen C O Hansen, COH ApS, DK; A Daly, Alogit Software & Analysis Ltd., NL; G Vuk, GV Models ApS, DK</p> <p>Proof of concept activity-based model for London and its application to area pricing in London C Teye, C Cheriyan, T Price, R Forrest, R Hendratmoko, H Groot, Transport for London, UK</p> <p>The effect of activity sequence representation on modelling of impact equity F Shone, S Hayes, Arup, UK</p> <p>Using genetic optimisation and agent-based models in designing road charging schemes K Kozłowska, G Casey, R Sedgwick, Arup, UK</p>	<p>MODELLING THE NEW NORMAL Session Chair Modelling "new normal" - telecommuting aspect G Vyas, P Vovsha, INRO, US</p> <p>Signs of "New Normal": long-term impacts of COVID-19 on travel behavior and their reflection in travel models G Vyas, P Vovsha, INRO, US</p> <p>Modeling the future demand for teleworking: a study using the Google COVID-19 Community Mobility Reports W Raballand, A Marchal, B Bion, CEREMA, FR</p> <p>A methodology to create a work-from-home trip generation indicator: an application in the UK E Papa, M Cao, University of Westminster; D Carrignon, Arcadis; D Watts, WSP, UK</p>
Transport Models	<p>TRANSPORT EVALUATION MODELS FOR SUPPORTING LOGISTICS (joint session with Freight and Logistics) Session Chair: Decarbonising last mile road freight for sustainable connected places P Franco, D Kaba, F Galatioto, Connected Places Catapult, UK</p> <p>Forecasting freight flows in times of crises J Francke, J Visser, KiM Netherlands institute for transport policy analysis (KiM); A Burgess, R Houkes, Panteia, NL</p> <p>Business-economic evaluation of the VT concept for the Danube case study E Moschouli, E van Hassel, L Nanway Boukani, T Vanelslander, M Thury, C Sys, A Coling, R Hekkenberg, University of Antwerp, BE</p>		<p>FREIGHT FORECASTING (joint session with Freight and Logistics) Session Chair: A simulation model for eHighway systems – the electrification of heavy road freight transport with contact lines M Werner, A Stephan, Technische Universität Dresden (TUD), DE</p> <p>Efficiency gains derived from autonomous trucks in container terminals - a VISSIM simulation study P Zimmerman, S Schmitt, R Fiedler, S Willrodt, I Völkel, Fraunhofer Center for Maritime Logistics and Services, DE</p> <p>Route choice modelling for freight vehicles: an approach based on floating car data A Comi, A Polimeni, University of Rome Tor Vergata, IT</p>

<p>AVIATION</p>	<p><u>AVIATION POLICY AND PASSENGER PERCEPTION</u> Session Chair: Pay more, fly more? Examining the potential guilt-reducing and flight-encouraging effect of an integrated carbon offset G Bosehans, University of Newcastle, UK; J W Bolderdijk, University of Groningen, NL; J Wan, University of Guelph, CA Recent trends on aviation policy: the 20s of the millenium period S X Toh, Marcharh Initiative, UK Aviation policy in national election programmes G C M Uitbeijerse, G P Geilenkirchen, PBL Netherlands Environmental Assessment Agency; M Kouwenhoven, G Van Eck, Significance, NL Key drivers of passenger satisfaction: a comparison between a regional airport and a big city airport M C Leva, M Kinhan, A Thimnu, A Caimo, L D'Arcy, TU Dublin, IE; L D'Alonzo, University of Chieti-Pescara; A Gorrini, Systematica, IT; D Lainado, L Naranjo, Eurecat; P Ciria, FGC, ES; P Zalecki, ZTM, PL; Y Hail, Stirling University, UK</p>	<p><u>THE IMPACT OF COVID-19 ON AIR TRANSPORTATION</u> Session Chair: Are we ever going to get out of this? Recovery in the forefront. The post-Covid era in air transportation A Koumoutsidi, I Pagoni, A Polydoropoulou, University of the Aegean, GR Air transport, the pandemic and the new protectionist policies. The Italian case C Tincani, University of Verona, IT Post-Covid aviation: a holistic view on challenges and opportunities G Boosten, C Zuniga Alcaraz, Amsterdam University of Applied Sciences, NL</p>	
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