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<th>Stream</th>
<th>Session 8</th>
<th>0930 - 1100</th>
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<th>1130 - 1300</th>
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<td><strong>Autonomous Vehicles</strong></td>
<td>ECTRI SEMINAR</td>
<td>Hibernia Centre Conference Room</td>
<td><strong>AUTONOMOUS VEHICLES</strong></td>
<td>Sponsored by the Global Trends impacting Transport Programme Committee</td>
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<td>Sponsored by the Global Trends impacting Transport Programme Committee</td>
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<td>Session Chair: John Davis, AECOM, IE</td>
<td>Session Chair: Jan Kiel, Panteia, NL</td>
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<td>Session Chair: John Siriat, Jacobs, UK</td>
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<td>Open Science in Transport: challenges and way forward</td>
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<td>Interactive workshop (panel and group discussion); the audience will be highly involved in the discussions, allowing as many contributions as possible to enrich the common understanding on the practical impact of Open Science in the transport sector. Speakers will include: Caroline Alméras, ECTRI Natalia Manola, Athena RC &amp; OpenAIRE George Yannis/Katerina Folla, NTUA Maria Boile/Afroditi Anagnostopoulou, CERTH‐HIT Fabio Cartolano, FTI Consulting/Kolja Kindler, DLR Anja Nielsen, TØI</td>
<td>Digitalisation and automation of transport: a lifeworld perspective of travellers S Keuchel, Westphalian University, DE Exploring the congestion impacts of autonomous and shared vehicles V Frebault, Arup, UK Autonomous - the infrastructure conundrum M Dnes, Department for Transport, UK Leveraging on toll operators’ experiences as first-generation digital mobility providers J Davis, AECOM, IE</td>
<td><strong>AUTONOMOUS VEHICLES</strong></td>
<td>Sponsored by the Planning for Sustainable Land Use and Transport and Global Trends impacting Transport Programme Committees</td>
<td><strong>MOBILITY CONCEPTS</strong></td>
<td>Sponsored by the Global Trends impacting Transport Programme Committee</td>
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<td><strong>Global Trends impacting Transport</strong></td>
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<td>Economic, employment and environmental impacts of automated, connected and shared electric vehicles J Krause, M Grosso, M Tamba, M Alonso Raposo, B Ciuffo, B Saveyn, European Commission - Joint Research Centre, INT FlexKerbs S Claris, F Karim-Khaku, Arup, UK CAVs and roundabouts: research on traffic impacts and design elements A Anagnostopoulou, F Kehagia, Aristotle University of Thessaloniki (AUTH), GR</td>
<td>Digitalisation and automation of transport: a lifeworld perspective of travellers S Keuchel, Westphalian University, DE Exploring the congestion impacts of autonomous and shared vehicles V Frebault, Arup, UK Autonomous - the infrastructure conundrum M Dnes, Department for Transport, UK Leveraging on toll operators’ experiences as first-generation digital mobility providers J Davis, AECOM, IE</td>
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<td><strong>Planning for Sustainable Land Use and Transport</strong></td>
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<td>Rehearsing the future: helping policy makers in land use and transport embrace uncertainty D Hamers, D Snellen, J Tennekes, A van Hoorn, K Nabieker, L van den Broek, PBL Netherlands Environmental Assessment Agency, NL Strategic planning in the face of uncertainty SCraig, Transport Scotland; G Lyons, University of the West of England; M Neil, SYSTRA, UK</td>
<td>The science of evidence-based decision making in government S Wood, Department for Infrastructure Northern Ireland, UK Have you ever had: • your proposals not implemented or ignored? • your evidence or analysis set aside? • a client ask you to prepare analysis or evidence to support their decision? • the feeling you and your policy-making client are inhabiting different worlds? Or have you just been frustrated that your reports gather dust on the shelf? If so – join the discussion. After a start off presentation by Stephen Wood from the Department for Infrastructure Northern Ireland, UK, we will have a conversation with delegates on how to put knowledge into action. The session will be moderated by Danielle Snellen, chair of the Planning for Sustainable Transport and Land Use committee.</td>
<td><strong>CHESTERFIELD ROOM</strong></td>
<td>Impact of driverless cars on urban environments &amp; the future of mobility L Studer, R Parmar, S Agriesti, M Ponti, P Gandini, G Marchionni, Mobility and Transport Laboratory, Politecnico di Milano, IT Social sustainability and autonomous vehicles: challenges for planning 21st century cities C.L Sabat, M L Alves Maia, Federal University of Pernambuco, BR CAVs, electric scooters and their implications for the road network design D Carrignon, Arcadis, UK</td>
<td><strong>CHESTERFIELD ROOM</strong></td>
<td>Impact of driverless cars on urban environments &amp; the future of mobility L Studer, R Parmar, S Agriesti, M Ponti, P Gandini, G Marchionni, Mobility and Transport Laboratory, Politecnico di Milano, IT Social sustainability and autonomous vehicles: challenges for planning 21st century cities C.L Sabat, M L Alves Maia, Federal University of Pernambuco, BR CAVs, electric scooters and their implications for the road network design D Carrignon, Arcadis, UK</td>
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<td>Local Public Transport</td>
<td>PLANNING ON THE BIG SCALE</td>
<td>Sponsored by the Local Public Transport Programme Committee</td>
<td>Session Chair: Brian Caulfield, Trinity College Dublin, IE</td>
<td>BALCONY ROOM</td>
<td>CABLE CARS</td>
<td>Sponsored by the Local Public Transport Programme Committee</td>
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<td>Session Chair: Brian Caulfield, Trinity College Dublin, IE</td>
<td>Analysis of options for the implementation of Luas Line F</td>
<td>T Brands, Delft University of Technology and Goudappel Coffeng; N van Oort, M Dixit, Delft University of Technology, NL</td>
<td>Session Chair: Gisela von Schieffen, RMV, DE</td>
<td>Session Chair: Gisela von Schieffen, RMV, DE</td>
<td>Developing a cable car network – a developer’s perspective</td>
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<td></td>
<td>Several thousand words</td>
<td>S Byron, M Rogers, Technological University Dublin, IE</td>
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<td>Balcony Room</td>
<td>Urban ropeways: challenges for planning routines of established public transport actors</td>
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<td>Impact assessment of new North/South metro line in Amsterdam</td>
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<td>M Reichenbach; Karlsruhe Institute of Technology (KIT), Institute for Technology Assessment and Systems Analysis (KIT-ITAS), DE</td>
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<td>T Brands, Delft University of Technology and Goudappel Coffeng; N van Oort, M Dixit, Delft University of Technology, NL</td>
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<td>Short to medium distance high capacity transit as retrofit: ‘elevated connectors’ - fast, equitable, social</td>
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<td>A Baetzner, Mobility CarSharing/Future Cities Laboratory, CH</td>
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<td>Rail Policy and Planning</td>
<td>RAIL AND PERCEPTION</td>
<td>Sponsored by the Rail Policy and Planning Programme Committee</td>
<td>Session Chair: Mark van Hagen, NS, NL</td>
<td>GUARD ROOM</td>
<td>REGULATION AND REFORM</td>
<td>Sponsored by the Rail Policy and Planning Programme Committee</td>
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<td>Session Chair: Mark van Hagen, NS, NL</td>
<td>Understanding train perception to define a targeted communication strategy</td>
<td>S Hasiai, Cerema Nord Picardie, FR</td>
<td>Guard Room</td>
<td>Session Chair: Edward O’Loughlin, WSP, UK</td>
<td>International comparison of rail reform: what effect has EU liberalization had? What is the best model?</td>
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<td>Understanding train perception to define a targeted communication strategy</td>
<td>Assessing travellers’ safety perception: case study of an Italian railway station</td>
<td>P Coppola, F Silvestri, University of Rome Tor Vergata, IT</td>
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<td>R Davies, Rail Strategy and Economics Ltd., UK</td>
<td>R Davies, Rail Strategy and Economics Ltd., UK</td>
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<td>Freight and Logistics</td>
<td>INTERMODAL POLICY: DISCUSSION SESSION</td>
<td>Sponsored by the Freight and Logistics Programme Committee</td>
<td>Session Chair: Thierry Vannelslander, University of Antwerp, BE</td>
<td>PRESIDENT’S ROOM</td>
<td>MODAL SHIFT POLICIES</td>
<td>Sponsored by the Freight and Logistics and Transport Economics, Finance and Appraisal Programme Committees</td>
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<td></td>
<td>Session Chair: Thierry Vannelslander, University of Antwerp, BE</td>
<td>The project BRAIN-TRAINS’ main achievement was to have developed a blueprint establishing the detailed criteria and conditions for developing an innovative intermodal network.</td>
<td>The workshop tackles five issue tracks for awareness creation and for suggestions and views on what their perspectives are with respect to how a user-friendly interface and an observatory ideally should look like. From the workshop, all views will be taken along, and an assessment will be made of what is feasible, and who can contribute to actual interface development.</td>
<td></td>
<td>Session Chair: Sisangile Nduna, University of Antwerp, BE</td>
<td>Costs and capabilities of innovative concepts of long and heavy vehicles</td>
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<td>Schedule:</td>
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<td>A taxonomy of modal shift policy in Europe</td>
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<td>Introduction and problem setting (2 min.)</td>
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<td>J Takman, I Verth, C Gustafsson, N Sedehi Zadeh, Swedish National Road and Transport Research Institute; K Cullinane, A Christodoulou, M Gonzalez-Aregall, University of Gothenburg, SE</td>
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<td>BRAIN-TRAINS results introduction (all five topics consecutively) by Thierry Vannelslander (3 min. per topic) and discussion (17 min. per topic) by all below-mentioned participants:</td>
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<td>Possible impacts of an emission-based truck charge in The Netherlands</td>
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<td></td>
<td>1. Operational and network planning</td>
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<td>M de Bok, I Bal, Significance; L Tavasszy, Delft University of Technology; T Tillema, J Francke, KIM Netherlands Institute for Transport Policy analysis, NL</td>
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<td>2. Economic impact</td>
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<td>D Gattuso, G C Cassone, S Mai, Mediterranea University – DIES, IT</td>
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<td>3. Environmental impact</td>
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<td>Developments in Eurasian rail cargo transportation: interaction between European and Russian transport policy</td>
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<td>4. Regulatory need</td>
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<td>S Sharapov, Institute for Economic Development and Transport, RU; M Shepherd, Oxera Consulting LLP, UK</td>
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<td>5. Government organisation</td>
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<td>Costs and capabilities of innovative concepts of long and heavy vehicles</td>
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<td>Wrap-up (2 min.)</td>
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<td>K Cullinane, A Christodoulou, M Gonzalez-Aregall, University of Gothenburg, SE</td>
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<td>Discussion group participants:</td>
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<td>A taxonomy of modal shift policy in Europe</td>
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<td>All ETC participants interested in sharing views on rail freight intermodal interface and observatory development. Experiences from existing observatories from countries around the world are welcome.</td>
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<td>J Takman, I Verth, C Gustafsson, N Sedehi Zadeh, Swedish National Road and Transport Research Institute; K Cullinane, A Christodoulou, M Gonzalez-Aregall, University of Gothenburg, SE</td>
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<td>Possible impacts of an emission-based truck charge in The Netherlands</td>
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Transport Economics, Finance and Appraisal

NEW COMPONENTS/TECHNIQUES/TOOLS
Sponsored by the Transport Economics, Finance and Appraisal Programme Committee
Session Chair: Johnny Ojeil, Arup, UK
COURTYARD ROOM
Equity effects of revenue neutral mileage-based fees for urban and rural households
S S Fitzrov, K Schroereckenthaler, EDR Group, US
Mobility of low-income households and car ownership
M Jolly, S Domergue, General Commission for sustainable development; D Meunier (LVMF, LUMT-T 9403, Ecole des Ponts, IFSTTAR, UPEM, UPE, FR
Valuing community severance in the Highways England Strategic Road Network
P Anciaes, P Jones, University College London; R Wheeler, Highways England, UK

NEW TECHNIQUES AND APPLICATIONS
Sponsored by the Transport Economics, Finance and Appraisal Programme Committee
Session Chair: David Simmonds, David Simmonds Consultancy, UK
COURTYARD ROOM
Road users’ experience with congestion – a questionnaire survey in the case of Oslo region
M Aarestrup Asnes, J Odech, Norwegian University of Science and Technology NTNU, NO
Public Private Partnerships for upgrading existing roads
R Rafiah, Economir, H Bonjacc, TMM Technology and Management, IL

ENERGY AND EMISSIONS
Sponsored by the Transport Economics, Finance and Appraisal Programme Committee
Session Chair: Tamas Matrai, BME Department of Transport Technology and Economics, HU
COURTYARD ROOM
Reactions to feebate systems and their impact on emissions
D Berthold, M-Five, DE
Transport energy model
M Humphries, Department for Transport, UK
Appraising electric vehicles
T Mani Lundle, Sweco, UK
Evaluating sustainable travel
M Sellman, Sweco, UK

Transport Models

AGENT-BASED MODELLING AND BIG MODEL APPLICATIONS
Sponsored by the Transport Models Programme Committee
Session Chair: Wolfgang Scherr, SBB, CH
PODDE ROOM
Road map for gradual improvements of travel models – from 4-step to Agent-Based
G Coupe, P Wilson, Atkins; D Armstrong, Kestrel Cam; P O’Neill, Intelligent Data, UK
Potential analysis OBU data Flanders
P Van Houwe, A Van Cluoster, MINT nv; S Vanderhaeghe, Geo Solutions, BE
The optimum days for collecting the short duration traffic count data in Korea
S H Lee, KICT, KR

TACKLING MODELLING COMPLEXITY 1
Sponsored by the Transport Models Programme Committee
Session Chair: David Siddle, Jacobs, UK
PODDE ROOM
Automatic generation of derived submodels based on a centrally managed dataset in Flanders
J De Coster, P Van Houwe, MINT, BE; K Verlinden, Significance, NL; D Borremans, Flemish Government, BE
Simplified transport modelling in low density areas
W Raballand, P-A Laharotte, Cerema Centre-East, FR

TACKLING MODELLING COMPLEXITY 2
Sponsored by the Transport Models Programme Committee
Session Chair: Dusica Krstic-Joksimovic, Rijkswaterstaat, NL
PODDE ROOM
Car ownership modelling in the Ile de France region
B Zondag, G de Jong, Significance, NL; E Lere, Ile-de-France Mobilités, FR
French households’ preferences for alternative fuel vehicles: a discrete choice analysis of SP data
A Berri, IFSTTAR, FR; S L Mabli, Transport DTU, DK

DATA

SURVEY
Sponsored by the Data Programme Committee
Session Chair: Csaba Kelen, Arup, UK
CROWN JEWELS ROOM
Drone surveys – a new source of data for transport planners
G Coupe, G Vyas, D Florian, M Florian, INRO Software, CA
Development of a hybrid travel demand model combining agent based microscopic and gravity based macroscopic approaches
H B Rijkens, R J Koopal, Goudappel Coffeng; L J N Brederode, DAT.Mobility/Delft University of Technology, NL; M L Hollestelle, Strafacia, PT
Mollienen, Kytii Group, FI
It was twenty years ago today; revisiting time-of-day choice in The Netherlands
G de Jong, Significance, NL and ITS, University of Leeds, UK; M Kouwenhoven, Significance and Delft University of Technology, NL; A Daly, ITS, University of Leeds, UK; S Thoen, Significance; M de Gier, Kantar Public; F Hofman, Rijkswaterstaat, WVL, NL

POLICY AND DATA DRIVEN DECISIONS
Sponsored by the Data Programme Committee
Session Chair: Johnny Ojeil, Arup, UK
CROWN JEWELS ROOM
F Teixeira, B Derudder, University of Gent, BE
What if big data is not available or not satisfying? a practical case in parking supply data in Paris metropolitan area
F Garcia Castello, RATP, FR
Towards data-driven decision making
S Schiebers, M Heynickx, Brabant Region, NL
School accessibility and educational outputs – evidence from Romania
C Amato, A Nunz, World Bank, INT

Transport Models

ASSIGNMENT
Sponsored by the Transport Models Programme Committee
Session Chair: Luc Wismans, Goudappel, NL
LA TOUCHE ROOM
Comparison of multiclass traffic assignment methods for cost-benefit analysis
L Engelsin, Swedish Transport Administration, SE
Modelling public transport networks in large models – a hybrid approach
C Winkler, T Mocanu, Z Wang, DLR – Institute of Transport Research, DE
Big data fusion and parametrization for strategic transport models
L Brederode, Goudappel Coffeng, NL

MICROSIMULATION
Sponsored by the Transport Models Programme Committee
Session Chair: Tim Gent, Atkins, UK
LA TOUCHE ROOM
Modelling airport drop-off and pick-up operations
E Ruxton, H Elafi, S Ghosh, AECOM, UK
Modelling a multi-level stadium, and the problems it generated
A Leeson, S Ghosh, AECOM, UK
The role of microsimulation in decision making process
S Gupta, T Lynch, Arup, UK
A multi-modal microsimulation modelling approach to bicycle infrastructure planning in Dublin
L O’Brien, K Hosie, A Houghton, C Manzira, Dublin City Council; S Dunny, AECOM, IE

SPECIFIC MODELLING ISSUES
Sponsored by the Transport Models Programme Committee
Session Chair: David Siddle, Jacobs, UK
LA TOUCHE ROOM
Deriving elasticities of demand from pivot-point transport models
J Kiel, Panteia; M de Bok, B Wesselink, Significance; M van den Berg, Rijkswaterstaat, NL; G de Jong, Significance, NL and ITS, University of Leeds, UK
Dealing with long run time and CPU cores for model production: advances and lessons learned
G Tenekeci, Jacobs, UK
Design and use of Quetzal, an open-source Python library for transport modelling
Q Chasseriau, R Goix, SYSTRA, FR
Medium term outlook for road traffic and congestion in the Netherlands
J Francke, M Knope, KMI Netherlands institute for transport policy analysis (KIM), NL
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<td>Young Researchers' and Practitioners' Forum</td>
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<td>TRANSPORT MODELS</td>
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<td>UNDERSTANDING TRAVEL PATTERNS FOR ROUTINE JOURNEYS</td>
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<td>Sponsored by the Young Researchers' and Practitioners' Forum and the Transport Models Programme Committee</td>
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<td>Session Chairs: Fulvio Silvestri, University of Rome &quot;Tor Vergata&quot;, IT and Eka Hintaran, Tyrens, UK</td>
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<td>Session Chairs: Alberto Gonzalez-Zaera, Jacobs, UK and Andre Goncalves, Sweco, UK</td>
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<td>The impact of distance-based value of time on transport models and benefit-cost analyses: a Norwegian case study</td>
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<td>Employment effects of sustainable transport - scenario analysis for Germany using input-output modelling</td>
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<td>O Vestøl, J Odeck, T Tørset, NTNU -Norwegian University of Science &amp; Technology, NO</td>
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<td>L Sievers, A Grimm, Fraunhofer Institute for Systems and Innovation Research ISI, DE</td>
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<td>Runnability: modeling runners' behavior at urban public spaces</td>
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<td>Modelling employees’ journey to work at London Heathrow Airport</td>
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<td>A Anagnostopoulos, Aristotle University of Thessaloniki (AUTh), GR</td>
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<td>D Spyropoulou, Jacobs, UK</td>
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<td>A new travel demand model for outdoor recreation trips</td>
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<td>Optimized sustainable combinations of air and sea travel to remote island communities</td>
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<td>X Jiao, Arcadis, UK</td>
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<td>T Schönberger, N Ferguson, University of Strathclyde, UK</td>
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