

D3.11

*Report about Special Session in  
European Level Transport Conference –  
ETC Dublin 2018*



alliance



## DOCUMENT CONTROL SHEET

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<b>Author(s)</b>	Kay Matzner, Evelyn Fischer, Kristina Malnaca		
<b>Co-author(s)</b>	-		
<b>Responsible Organisation</b>	IFF		
<b>WP Leader</b>	TTI		
<b>Internal Reviewer(s)</b>	Irina Yatskiv (Jackiva), TTI Eftihia Nathanail, UTH		
<b>Project Officer</b>	Agnes Hegyvarine Nagy		

**ALLIANCE Beneficiaries**

TRANSPORT AND TELECOMMUNICATION INSTITUTE – TTI	Latvia
PANEPISTIMIO THESSALIAS – UTH	Greece
FRAUNHOFER GESELLSCHAFT ZUR FORDERUNG DER ANGEWANDTEN FORSCHUNG EV – Fraunhofer	Germany

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## LIST OF ABBREVIATIONS

Abbreviation	Description
CERTH	Centre for Research and Technology Hellas
D	Deliverable
DLR	German Aerospace Center
ETC	European Transport Conference
EU	European Union
FEHRL	Forum of European National Highway Research Laboratories
Fraunhofer IFF	Fraunhofer Institute for Factory Operation and Automation IFF
GTIT	Global Trends Impacting Transport
HIT	Hellenic Institute of Transport
MaaS	Mobility as a Service
PO	Project Officer
R&I	Return on Invest
SAP	Scientific excellence and innovation assurance panel
STSE	Short-Term Staff Exchange
TEN-T	Trans-European Transport Networks
TTI	Transport and Telecommunication Institute
UCD	University of College Dublin
UTH	University of Thessaly
WP	Work Package
YRPF	Young Researchers' and Practitioners' Forum

## ABSTRACT

The present deliverable constitutes the report about the special session “Education and Training – New challenges towards the Future Transport”, which was organized in the frame of 46<sup>th</sup> European Transport Conference on the 11th of October 2018 in Dublin, Ireland. The special session aimed on giving information about projects and providing public with progress and findings of the projects ALLIANCE and SKILLFULL with strong emphasis on development of linkage among education, research and industry.

The main statements of the presentations, which were being shown from members of the projects ALLIANCE and SKILLFULL are presented in the current deliverable. Also, the main outcomes of the subsequent round table discussion have been summarized and stated for the development of further collaboration activities. Representatives of the Department of Finance and Development Planning of Ministry of Transport (Latvia), the Riga International Bus and Coach Terminal (Latvia), Riga Municipality (Latvia), the Hellenic Institute of Transport (Greece), the University of College Dublin (Ireland), the Transport and Telecommunication Institute, the University of Thessaly (Greece) and the Fraunhofer Institute of Factory Operation and Automation IFF (Germany), actively participated in the Round Table. Finally, the special session was evaluated by two SAP members of the ALLIANCE project.

# 1 Introduction

## 1.1 Contents of the deliverable

The current document is a deliverable in the framework of WP3. The objective of WP3 is to define and implement a knowledge-sharing strategy. The strategy clearly defines the activities and plans for activities execution, which can maximize the transfer of knowledge between partners of the project. Knowledge-sharing strategy targets on the following groups of users: researchers and academic staff of TTI; master and PhD students. Deliverable D3.11 constitutes the report about the special session “Education and Training – New challenges towards the Future Transport”, which was organized in the frame of the 46<sup>th</sup> European Transport Conference on the 11th of October 2018 in Dublin, Ireland. The special session took place in the second day of the three-days conference in a time slot of two hours from 16:15 till 18:15. The scope of the session was to inform the public on an international stage about the projects ALLIANCE and SKILLFULL and to share progress and findings of both projects. The emphasis was put on identifying synergies between the projects in the development of linkage among education, research and industry in the domain of transportation.

The special session was organised by the project coordinator of ALLIANCE project, the Transport and Telecommunication Institute (TTI), and coordinated by representatives of both projects – ALLIANCE and SKILLFULL. The special session consisted of two parts: 1) presentations about ALLIANCE and SKILLFULL projects, and 2) a subsequent round table for discussions between researchers and stakeholders invited by the project’s consortia. In total, five presentations, three from ALLIANCE project and two from SKILLFULL project, were given by members of the projects:

- 1) *ALLIANCE Project: Partnerships for innovation, skills and jobs and how to engage the profitable international cooperation (Prof. Irina Yatskiv (Jackiva), TTI)*
- 2) *ALLIANCE Project: New educational program on intermodal connections (Dr. Giannis Adamos, UTH)*
- 3) *ALLIANCE Project: Assessing knowledge of stakeholders on sustainable interchanges’ design and operation (Dr. Mihails Savrasovs, TTI)*
- 4) *SKILLFUL Project: Skills and competences development of future transportation professionals at all levels (Mrs. Matina Loukea, CERTH/HIT)*
- 5) *SKILLFUL Project: Training needs and skills gaps across the transportation sector. (Ms. Grace Moloney, UCD).*

During the Round Table the following four key questions were being discussed:

- How to facilitate stakeholder collaboration and the development of strong linkage among education, research and industry?
- How we can focus education, research and innovation activity on social and economic development?
- Balanced combination to the triplex of research/education, industry and policy makers, acknowledging the key role of society. How to increase related R&I impact and exploitation?
- How to identify the skills and competences needed by the Transport workforce of the future?

The deliverable also contents a concluding evaluation of the special session, conducted by two ALLIANCE SAP members, Inta Rozensteine and Dr. Sc. Ing. Vaira Gromule.

## 1.2 ALLIANCE Project overview

ALLIANCE aims at developing advanced research and higher education institution in the field of smart interconnecting sustainable transport networks in Latvia, by linking the Transport and Telecommunication Institute – TTI with two internationally recognized research entities – University of Thessaly – UTH, Greece and Fraunhofer Institute for Factory Operation and Automation – Fraunhofer, Germany. Close collaboration of TTI with UTH and Fraunhofer will enable the achievement of the goals through the following activities:

- Organization of young researchers' seminars.
- Organization of workshops.
- Organization of summer schools for trainers and young researchers.
- Development of educational programme for graduate and post-graduate students.
- Development of training programme for trainers and practitioners.
- Provision of grants for participation as authors of peer reviewed publications in conferences.
- Facilitation of Short-Term Staff Exchanges (STSE's) with the aim of international collaboration, mainly publications.
- Establishment of a guidance strategy for preparing scientific publications.
- Creation of an educational forum as on-line tool for distance learning and knowledge sharing.

The overall methodology of the project is built around the analysis of the needs of Latvia and the surrounding region of the Baltic sea (Lithuania, Estonia, Poland) on knowledge gain about intermodal transportation networks and the development of the tools to attain this knowledge, providing at the same time excellence and innovation capacity. The analysis to be conducted during the first stages of the project, steps on the overarching relations among policy makers, industry and education/research.

Structured around three main pillars, organizational/governance, operational/services and service quality/customer satisfaction, ALLIANCE will deliver a coherent educational/training program, addressed to enhancing the knowledge of current and future researchers and professionals offering their services in Latvia and the wider region.

The expected impacts on the overall research and innovation potential of TTI and Latvian research community will be of high importance and TTI will benefit from ALLIANCE by:

- Improving its knowledge in methodologies for preparing, writing and publishing scientific papers.
- Strengthening its research capacity.
- Establishing international research teams in specific areas of interest.
- Generating new innovative ideas for future research work through the project's activities.
- Setting up the fundamentals for the young generation of researchers.
- Being integrated in a number of existing international transportation research networks.
- Being incorporated in the European research system of transport and logistics.

In addition, the cooperation of TTI with UTH and Fraunhofer will induce benefits into several domains of everyday life at regional, national and international scope. New bases will be established concerning knowledge transfer procedures, education and interdepartmental collaboration amongst research institutes. The innovative organizational framework, which will be

structured for this purpose during the project, is expected to constitute a best practice application with tangible and well estimated progress results, which will be disseminated and communicated through social events to the research community and to the respective business sector as well.

Lastly, an important benefit will be the configuration of an integrated framework pertaining to the knowledge transfer techniques and the generic upgrading of the educational system with use of networking, staff exchange, webinars and other knowledge transfer methods and techniques based on a well-structured and well-tried schedule.

### **1.3 SKILLFUL Project overview**

SKILLFUL is a H2020 funded project ([skillfulproject.eu](http://skillfulproject.eu)) and its Consortium consists of 21 partners, all with great experience and expertise in transportation issues for all modes. The coordinator of SKILLFUL is FEHRL ([www.fehrl.org](http://www.fehrl.org)), and CERTH/HIT acts as its Technical Manager ([www.hit.certh.gr](http://www.hit.certh.gr)). SKILLFUL vision is to identify the skills and competences needed by the transport workforce of the future (2020, 2030 and 2050 respectively) and define the training methods and tools to meet. More particularly, SKILLFUL aim is threefold:

- i. to critically review the existing, emerging and future knowledge and skills requirements of workers at all levels in the transportation sector, with emphasis on competences required by important game changers and paradigm shifters (such as electrification and greening of transport, automation, MaaS, etc.);
- ii. to structure the key specifications and components of the curricula and training courses that will be needed to meet these competence requirements optimally, with emphasis on multidisciplinary education and training programmes;
- iii. to identify and propose new business roles in the education and training chain, in particular those of “knowledge aggregator”, “training certifier” and “training promoter”, in order to achieve European wide competence development and take-up in a sustainable way.

### **1.4 About the European Transport Conference 2018**

The European Transport Conference (ETC) is an annual conference of the Association for European Transport that presents the opportunity to interact with a range of speakers across the transport industry. The range of topics, the multi-seminar approach and the networking environment makes ETC unique among transport conferences, making it the established premier event of its type.

The conference attracts transport practitioners and researchers from all over Europe where they can find in-depth presentations on policy issues, best practice and research findings across the broad spectrum of transport. The range of topics and the multi-seminar approach makes ETC unique among transport conferences and it is well established as the premier event of its type. The conference programme covers supranational issues, national and local policy and the implementation of projects at a local level.<sup>1</sup>

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<sup>1</sup> <https://aetransport.org/en-gb/etc>. [Access: 05.11.2018]

The 46<sup>th</sup> European Transport Conference was held from 10-12 October 2018 in Dublin Castle, Dublin Ireland and covered the following topics:

- Global Trends Impacting Transport (GTiT)
- New Mobility patterns, Digitisation and Mobility as a Service
- Automated Driving and Connected Vehicles/Infrastructure
- Mobility for Liveable Cities, including Urban Mobility, air quality, health and active travel
- TEN-T extension to the Balkans and the further east, the new silk road
- Air Transport and Travel
- The Wider Economic Benefits of Transport Investment
- Decision making under uncertainty – the perils of ignorance and a means of effective response
- Young Researchers' and Practitioners' Forum (YRPF)

In summary over 250 papers were presented in 10 parallel sessions per day. Around 450 delegates were represented with attendees from over 30 countries worldwide.<sup>2</sup>

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<sup>2</sup> <https://aetransport.org/en-gb/etc/this-year-at-etc>. [access: 05.11.2018].

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## 2 Progress and findings of ALLIANCE and SKILLFULL on Education and Training in Future Transport

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**The first presentation** was given by Prof. Irina Yatskiv (Jackiva), TTI on the topic: “Partnerships for innovation, skills and jobs and how to engage the profitable international cooperation”.

**Prof. Irina Yatskiv, ALLIANCE project coordinator**, opened the session with welcoming words and introduced ALLIANCE, emphasizing the partnership role in stimulating and strengthening the scientific and technological capacity of research institutions and in raising the profile of the research staff. The project ALLIANCE has provided great benefits for graduate and post-graduate students and staff of the partnering institutions – organized exchange visits, training courses, summer schools, supported collaboration in research. Summer schools organized in Riga, Latvia have been open also for representatives from business and government institutions and participants from partners countries and Baltic Sea region.

PhD students of TTI come from various parties in transport sector – industry, education & research and policy makers. The project ALLIANCE has helped to link all parties and share experiences with each other. It also has helped to establish international research teams in different areas of interest within the project scope.

Prof. Yatskiv stressed the importance of higher institution to be open to business. One of the challenges for sustainability is strengthening of the relationship between higher education and industry. The project ALLIANCE has helped to establish good and sustainable platform of educational courses for graduate program and vocational training in the field of intermodal transport networks, has promoted research through publications and participation in the number of transport conferences in the EU and has encouraged collaboration between industry, education & research and policy makers.

**The second presentation** was given by Dr. Giannis Adamos, UTH on the topic: “New educational program on intermodal connections”.

**Dr. Giannis Adamos, ALLIANCE project WP5 leader**, introduced the methodology of creating new educational program for TTI relevant to the scope of the project ALLIANCE. At first, educational programs related to inter-modal transport networks in well-reputed higher education institutions of the European Union were analysed (aim, objective, courses, learning outcomes). Similarly, available transport programs were identified in the Baltic States and Poland. Gap analysis was performed according to the three thematic areas of ALLIANCE – governance and policy development, smart solutions and decision-making. Looking at planned development of Latvian transport networks and interchanges, future knowledge and skills requirements were defined. This process allowed to develop new training courses that would cover the gaps identified.

**The third presentation** was given by Dr. Mihails Savrasovs, TTI on the topic: “Assessing knowledge of stakeholders on sustainable interchanges’ design and operation”.

**Dr. Mihails Savrasovs, ALLIANCE project WP3 leader**, presented results of the study where outcomes of the current education programs were assessed and also the new training program “Sustainable Transport Interchange Program” (STIP) prepared within ALLIANCE project was evaluated. A survey was conducted containing questions about the level of today’s knowledge obtained, importance of this knowledge, and its relevance to the skills required for further career pursuance. The new educational program STIP was validated, respondents from all parties (policy makers, industry, education & research) approved the program to be on the right track. The results of the survey also showed that vocational training and on-job training is already used by significant number of respondents.

**The fourth presentation** was given by Mrs. Matina Loukea, HIT on the topic: “Assessing knowledge of stakeholders on sustainable interchanges’ design and operation”.

**Mrs. Matina Loukea**, HIT, Greece introduced the SKILLFULL project, implemented between October 2016 – September 2019. The aim of the project is to identify skills and competences required in the transport sector in the future (short term 2020, medium term 2030 and long term 2050). The activities involved identification of driving forces (changes in technologies – electrification, autonomous driving etc. and in business models); identification of new jobs that will be mainly affected by new developing trends; identification of training courses to meet future needs. The gaps in training and educational programs were discovered for specific transport sectors. For example, better training in new technologies is required in rail sector, cyber security - in air sector, knowledge in information technologies - in inter-modal systems, engineers in “green” technologies – in maritime sector.

**The fifth presentation** was given by Ms. Grace Moloney, UCD on the topic: “Training needs and skills gaps across the transportation sector”.

**Ms. Grace Moloney**, UCD, Ireland, showed the main findings in training needs and skill gaps across the transportation sector. She informed about the educational and vocational trainings they developed and pointed out that the blended learning approach turned out to be the most suitable. On this point there is a linkage to ALLIANCE digitalization of the developed training material that could be compared and extended on the basis of SKILLFULL empirical work. Another result of the workshops they conducted is that all sectors (maritime, intermodal, etc.) do more focus on soft skills than on hard skills in future competence to be developed. Also there are some jobs facing major changings as “transportation planners” for example. The recommendation was to differentiate their profiles into i. a. “urban freight planners”, acting more interdisciplinary on the linkage between city planning, logistics and transportation. Furthermore, there are some new jobs expected to emerge, like mobility and mass obligators, designers of autonomous vehicles, automation and robotics experts, etc.

### 3 Outcomes of the Round Table Discussion

After the input presentations of both projects, a round table was conducted with project members and representatives from business and education. Inspired by five focus questions (see table below) the Round Table participants formulated the following statements:

**Ms. Inta Rozensteine**, a member of Scientific excellence and innovation assurance panel (SAP) of ALLIANCE project, also representing the Ministry of Transport of Latvia reminded that it is important to understand the current issues in transport sector, foresee the needs in the future and understand what knowledge will be necessary to meet the future demand. The future transport system shall be seen as an effective mobility provider for both cargo and passengers. And it is not just about suitable infrastructure and environmentally-friendly vehicles, but also about intermodality - providing the convenient, fast, accessible and affordable transport system. Increasing passenger and freight flows, new destinations and transport routes require intermodal interchanges with modern infrastructure, smart information systems and good service. Ms Rozensteine concluded that ALLIANCE project fits very well into overall transport development trends enhancing the knowledge and experience of transport students and practitioners in the area of intermodal interchanges.

**Dr. Vaira Gromule**, the second ALLIANCE SAP member, emphasized spatial availability as one of the challenges for transport system development in urban environment. She acknowledged ALLIANCE summer school participants who did practical studies useful for business. Dr. Gromule also as a chairwoman of the board of Riga international coach terminal agreed that changes in business models in transport sector are also expected in the future. She reviewed the four main priorities for transport research under Horizon 2020 and highlighted how ALLIANCE project helps to form globally competitive Latvian science, technology and innovation industry that could support the needs for development of the national economy and society.

**Mr. Tom Assmann**, research assistant of the Fraunhofer IFF, Magdeburg, stated that the task of applied research mainly is to solve the problems the industry faces. Therefore, the industry problems firstly have to be transformed into scientific problems. In his experience, students are generally good in applying methodologies, but not good enough in understanding the problems of industry in their system environment. Asking the right questions is necessary and also to look for the right solutions instead of the newest technology available. For example, autonomous vehicles consume the same amount of energy as conventional vehicles and are not solving the problem of traffic, if we completely change our traffic system towards autonomous vehicle implementation, as a study of DLR recently discovered. As soon as we have collected more possible solutions to solve our problems, we have to convince municipalities not immediately to plan, but firstly to start with doing more experiments, surveys, evaluating tests, distinguishing between harder and softer solutions, etc. and then to begin with the planning step. Too long planning processes, unsure which side effects they may produce, prevent good transport design.

The main issues discussed and conclusions are listed in the following paragraphs.

**Table 1:** Main discussion outcomes

Questions for Discussion	Main Outcomes
How to facilitate stakeholder collaboration and the development of strong linkage among education, research and industry?	<ul style="list-style-type: none"> <li>Education and research institutions could provide <b>a virtual platform with the latest developments, trends, hot topics, ideas for transport sector development</b>. Often industry and policy makers can define the</li> </ul>

	<p>problem but don't know how to solve it. Researchers can provide solutions (ALLIANCE institutions).</p>
<p>How can we focus education, research and innovation activity on social and economic development?</p>	<ul style="list-style-type: none"> <li>• Another challenge for education and research sector is how to help industry and policy makers to define the vision of transport system or particular transport sector. <b>Life-long learning</b> helps policy makers in their daily work bringing new ideas and up-to-date knowledge. There is a need for lifelong learning from low professionals to high skill professionals (SKILLFULL institutions).</li> <li>• It is important to <b>teach students and researchers to understand industry problems and needs</b> correctly and then provide the right solutions. On the other hand, it is important that <b>industry supports research financially</b>, otherwise it is a hindering factor for development and economic growth of a country (ALLIANCE institutions).</li> </ul>
<p>Balanced combination to the triplex of research/education, industry and policy makers, acknowledging the key role of society. How to increase related R&amp;I impact and exploitation?</p>	<ul style="list-style-type: none"> <li>• Vouchers for industry to order research projects is only an artificial push, Industry generally does not know what exactly to order. <b>A virtual platform could feed the industry with problem relevant information and knowledge and also provide new ideas.</b> That could also change the ways of business (ALLIANCE institutions).</li> <li>• Spatial availability is a big shortage in Riga, so <b>interchanges need to get transformed into mobility hubs</b> → real changes in business models and management (SAP member).</li> <li>• <b>Policy makers need to support national innovation</b> (ALLIANCE institutions)</li> <li>• For transportation planners it is important to remember that interchange points need to be constructed where they are necessary but not where it is easier to build them. <b>Transport system has to be flexible to adopt to mobility needs</b> (SAP member).</li> </ul>
<p>How to identify the skills and competences needed by the Transport workforce of the future?</p>	<ul style="list-style-type: none"> <li>• On the basis of <b>identified driving forces and the subsequent derivation of competences needed</b>, which are getting more and more <b>interdisciplinary</b> (SKILLFULL institutions).</li> </ul>

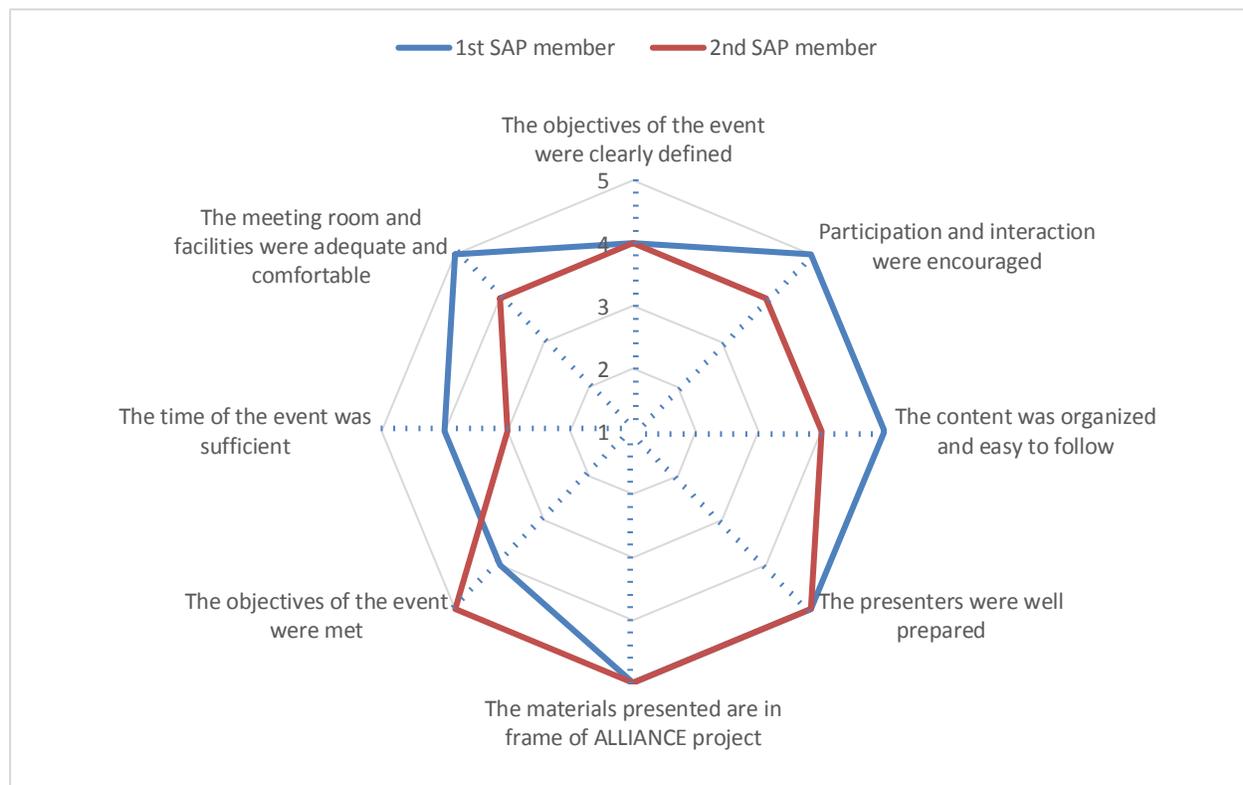
	<ul style="list-style-type: none"> <li>• Necessity to focus more on <b>general competences</b> than on specific technical ones (SKILLFULL institutions).</li> </ul>
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## 4 Evaluation of the Special Session

Subsequent to the special session an evaluation through two ALLIANCE SAP members, Inta Rozensteine and Dr. Vaira Gromule, was conducted.

Figure 1 depicts the results of SAP members' feedback regarding the level of agreement with statements listed in questionnaire. The numbers have the following meaning: 5 "strongly agree", 4 "agree", 3 "neutral", 2 "disagree", 1 "strongly disagree". The analysis of this feedback shows the positive evaluation of the event by the SAP members. The SAP members were also welcomed to provide their opinion about the special session in free form. As a result, SAP members assessed the event as very successful and pointed out the opportunity to get acquainted with the SKILLFULL project, which largely complemented with the ALLIANCE project. They suggested that it would be highly desirable to continue this kind of project on the basis of the conclusions drawn and especially asked for receiving the protocol of the meeting with the main conclusions and proposals highlighted. The results of the evaluation are presented in Annex C.

**Figure 1: Level of agreement with the statements**



## 5 Synopsis

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Some of the projects' findings could add direct value to other projects of the participants. For example, Tom Assmann considered the proposal of SKILLFULL project to establish urban freight planners in cities in his research project "cargo bike depot" by implementing the idea in his planning guide for planning transshipment points for cargo bikes. Also, the presentations and discussions had been quite fruitful for setting the focus in the development of ALLIANCE e-learning courses in sense of the industry needs and skills gaps to be filled.

## **Annexes**

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**Annex A: Programme of ETC 2018**

**Annex B: Agenda of ETC 2018 Special Session and Photos**

**Annex C: SAP Evaluation Forms**

## **Annex A: Programme of ETC 2018**

Thursday				
	Session 4 09:00 – 10:30	Session 5 11:15 – 12:45	Session 6 14:00 – 15:30	Session 7 16:15 – 18:15
European Infrastructure Development	<p><b>TEN-T Network Development</b> Sponsored by the Global Trends impacting Transport and Freight and Logistics Programme Committees Session Chair: Jan Kiel, Panteia, NL</p> <p>Traffic safety impact of the TEN-T network, with special regard to potential accident reductions in the West Balkans C Kelen, Arup, UK</p> <p>The freight transport accessibility through Europe: the multi-criteria evaluation of intermodal (rail/road) freight transport corridors M Janić, Delft University of Technology, NL</p>	<p><b>The Belt and Road Initiative</b> Sponsored by the Global Trends impacting Transport and Freight and Logistics Programme Committees Session Chair: Peter Endemann, Regionalverband FrankfurtRheinMain, DE</p> <p>China Belt and Road initiative: measuring the impact of improving transportation connectivity on international trade HLu, C Rohr, A Knack, M Hafner, RAND Europe, UK</p> <p>The New Silk Road bonanza: how will proposed infrastructure capacities and prognosed demand between East Asia and Europe align in the future? A Labinsky, H-P Kienzler, Prognos AG, DE</p> <p>The “Belt and Road Initiative”: impacts on TEN-T and on the European transport system D Dunmore, S Ellis, A Preti, C Routaboul, Steer (formerly Steer Davies Gleave), UK</p>	<p><b>TEN-T extension to South-East Europe</b> Sponsored by the Global Trends impacting Transport Programme Committee Session Chair: Peter Endemann, Regionalverband FrankfurtRheinMain, DE</p> <p>The Balkan section of the Orient/East-Med Corridor: problems and potentials M Niedermaier, A Peric, B Scholl, ETHZ, CH</p> <p>Tauern-Pyhrn/Schober axis as part of the TEN-T core network – gateway to Southeast Europe and beyond H-P Kienzler, A Labinsky, S Westphal, T Gutberlet, Prognos AG, DE; H Adelsberger, InfraConceptA; N Sedlacek, HERRY Consult, AT</p> <p>TEN-T Extension to the Western Balkans - perspectives and opportunities for Croatia K Ležaić, Ministry of Maritime Affairs, Transport and Infrastructure of the Republic of Croatia, HR</p>	<p><b>BREXIT</b> Sponsored by the Global Trends impacting Transport Programme Committee Session Chair: Tim Gent, Atkins, UK</p> <p>Perspectives on Brexit and its implications for the rail sector on the Island of Ireland and Great Britain. Are there lessons from recent history? A Smyth, University of Hertfordshire, UK</p> <p>Levels of movement between Ireland and the UK post Brexit. What are the official pronouncements and how reliable are those assessments? a review of the official evidence and robustness of the tools used to inform assessment of future conditions A Smyth, University of Hertfordshire, UK</p>
	Room: Hibernia Centre Conference Room	Room: Hibernia Centre Conference Room	Room: Hibernia Centre Conference Room	Room: Hibernia Centre Conference Room
<p><b>DECISION MAKING UNDER UNCERTAINTY – THE PERILS OF IGNORANCE AND A MEANS OF EFFECTIVE RESPONSE</b> Seminar organised by Transport Scotland; University of the West of England (UWE Bristol); the Chartered Institution of Highways &amp; Transportation; PBL Netherlands Environmental Assessment Agency; Dutch Ministry of Infrastructure and Water/Rijkswaterstaat; and UK Department for Transport</p>	<p>Welcome and introductions Session Chair: Alison Irvine, Transport Scotland, UK</p> <p>Multi-dimensional future scenarios to help policy makers embrace uncertainty in the fields of land use and transport D Hamers, D Snellen, J Tennekes, A van Hoorn, K Nabielek, L van den Broek, PBL Netherlands Environmental Assessment Agency, NL</p> <p>Embracing uncertainty and shaping transport for Scotland’s future S Cragg, M Neil, Transport Scotland; G Lyons, Mott MacDonald Professor of Future Mobility and University of the West of England, UK</p> <p>Overview of post-break debate Room: E207-E208</p>	<p>Debate</p> <p>Where we are now: To what extent and how is uncertainty being currently addressed in decision making? The perils of ignorance: What is the nature and extent of risks that we face if uncertainty is not handled appropriately in decision making? Where we need to be: What can be done to improve decision making under uncertainty?</p> <p>Summing up by the Session Chair Room: E207-E208</p>		
			Cable Cars Q&A 1245 hours in the Printworks Conference Room	

<p>Local Public Transport</p>	<p>Technical visit to LUAS light rail system</p>	<p><u>Public Transport as a Network</u> Sponsored by the Local Public Transport Programme Committee Session Chair: Andras Munkacsy, Institute for Transport Sciences, HU</p> <p>Cycling as access and egress mode of public transport: what are the factors affecting the combination? TS Leferink, JFP van Mil, J A Annema, N van Oort, Delft University of Technology, Witteveen+Bos, AT Osborne, Goudappel Coffeng, NL Bus network planning in medium to large Irish towns E Rhys Thomas, Jacobs; P McGartoll, National Transport Authority, IE Reimagining and redesigning the public bus network for the Dublin area D Costantino, J Walker, Jarrett Walker + Associates; H Creegan, C O'Donovan, National Transport Authority, IE</p> <p>Room: Guard Room</p>	<p><u>Up in the Sky - cable cars</u> Sponsored by the Local Public Transport Programme Committee Session Chair: Gisela Graefin von Schlieffen, RMV, DE</p> <p>Medellín's aerial cable-cars: Reducing urban marginalisation through transport connectivity J D Davila, University College London, UK IJbaan Amsterdam B Dekker, Foundation IJbaan Amsterdam, NL Are cable cars a viable form of urban mass transit? L Manzi, F Carippo, Steer (formerly Steer Davies Gleave), UK</p> <p>Room: Guard Room</p>	<p><u>Making the network work - the importance of interchange</u> Sponsored by the Local Public Transport Programme Committee Session Chair: Andras Munkacsy, Institute for Transport Sciences, HU</p> <p>Why interchange is important J Hawthorne, Independent Consultant, UK Quality of service in urban transport interchanges: understanding the gaps between users' and operators' expectations E Budilovich, I Yatskiv, E Nathanail, G Adamos, M Tsami, V Magginas, University of Thessaly, GR VisWalk modelling of bus interchange on Dublin Quays P Leone-Ganado, Jacobs, IE Establishing modern rail connection to Budapest Airport - searching for realistic solutions C Orosz, T Toth, Budapest University of Technology and Economics, HU</p> <p>Room: Guard Room</p>
<p>Rail Policy and Planning</p>	<p><u>Promoting Rail Travel: understanding the drivers</u> Sponsored by the Rail Policy and Planning Programme Committee Session Chair: Edward O'Loughlin, WSP, UK</p> <p>Understanding the drivers of travel behaviour: a long-term look at the future of demand for rail M Dillon, A Moreno Pelayo, Arup; S King, Future Thinking; S Cassidy, Rail Safety and Standards Board, UK Bringing romance back to the rails – starting with a map M van Hagen, J van der Made, E Ten Elsen, Netherlands Railways; R Woods, Robinworldwide, NL Explaining the development of use of public transport in the Netherlands from 2005-2016 H van der Loop, P Bakker, F Savelberg, KiM Netherlands Institute for Transport Policy Analysis; M Kouwenhoven, E Helder, Significance, NL</p> <p>Room: Crown Jewels Room</p>	<p><u>Station Quality Evaluation</u> Sponsored by the Rail Policy and Planning Programme Committee Session Chair: Elaine Seagriff, Jacobs, UK</p> <p>Objective and subjective predictors of perceived cleanliness on train stations M C Vos, M van Hagen, Netherlands Railways, NL The valuation and demand impacts of improvements to railway stations R Maldonado, M Wardman, SYSTRA; P Wheat, A Stead, J Shires, ITS, University of Leeds; T Magee, Passenger Demand Forecasting Council; N G Harris, The Railway Consultancy Ltd., UK</p> <p>Room: Crown Jewels Room</p>	<p><u>Rail: finance, funding and economic benefits</u> Sponsored by the Rail Policy and Planning Programme Committee Session Chair: Neil Fleming, Department for Transport, UK</p> <p>Cheaper, simpler rolling stock financing: the benefits of the Luxembourg Rail Protocol H Rosen, Rail Working Group; P Hope, A Pechevy, Oxera, UK New station developments: challenges and benefits of Transport Oriented Development: how about innovative funding mechanisms and international comparisons? G Tenekeci, G Smith, Jacobs, UK</p> <p>Room: Crown Jewels Room</p>	<p><u>Rail Disruption: managing stress</u> Sponsored by the Rail Policy and Planning Programme Committee Session Chair: Charles Harmer, Crossrail, UK</p> <p>How does unplanned disruption affect train operator revenue? M Shepherd, R Lauer, Oxera Consulting LLP, UK Measuring stress during train trips M van Hagen, M Vos, Netherlands Railways, NL</p> <p>Room: Crown Jewels Room</p>

<p>Planning for Sustainable Land Use and Transport</p>	<p><u>Safer and Better Streets</u> Sponsored by the Planning for Sustainable Land Use and Transport Programme Committee Session Chair: Gian Paolo Ansaloni, Department for Transport, UK</p> <p>Urban street design: a people first approach A Archer, M MacAree, Systra, IE Towards a safer cycling infrastructure: a qualitative study on risks and hazards of cycling community M Zallio, N O' Reilly, B Caulfield, Trinity College Dublin, IE</p>	<p><u>Novelty Methods</u> Sponsored by the Planning for Sustainable Land Use and Transport Programme Committee Session Chair: James Odeck, Vegvesen, NO</p> <p>Transforming liveable cities: the role of Virtual Reality in reshaping cycling S Bialkova, D Ettema, M Dijst, Utrecht University, NL Impact of Smarter Travel Areas investment in Ireland E Brick, AECOM; A O' Grady, Department of Transport, Tourism and Sport, IE</p>	<p><u>Planning for Sustainable Transport</u> Sponsored by the Planning for Sustainable Land Use and Transport Programme Committee and the Young Researchers' and Practitioners' Forum</p> <p>Session Chair: Wim Korver, Goudappel Coffeng, NL</p> <p>Planning sustainable transport by constructing transport markets more socially D Halden, Derek Halden Consultancy, UK Status of SUMP in European member states – Integration of SUMP into national or regional programmes T Durlin, CEREMA, FR; A Plevnik, M Balant, UIRS, SL Local impacts of commuting opportunities: a Swedish case study on small geographical areas E Johansson, Lund University, SE</p>	<p><u>Urban Design and Travel Behaviour</u> Sponsored by the Planning for Sustainable Land Use and Transport Programme Committee Session Chair: Doina Olaru, University of Western Australia, AU</p> <p>Travel time perception of cyclists as policy instrument M-J Olde Kalter, L Groenendijk, Goudappel Coffeng; M van Hagen, Nederlandse Spoorwegen, NL Exploring the influences of neighbourhood type and attitudes on non-work travel behaviour patterns: insights from Ireland S Convery, B Williams, University College Dublin, IE</p>
<p>Young Researchers' and Practitioners' Forum</p>	<p><u>Workshop</u> Sponsored by the Young Researchers' and Practitioners' Forum Alberto Martin Gonzalez-Zaera, Carolina Macedo, Jacobs, UK You be the Mayor</p> <p>Have you ever dreamed of the prosperous city that would result, if only you were in charge of making the decisions? Yeah – us too.</p> <p>Welcome to a city like many others, where roads are congested and there is insufficient public transport to meet demand. Your challenge is to deliver the transport infrastructure and policy that will deliver economic benefits – all within budget, of course!</p> <p>This workshop will give you the opportunity to work alongside delegates from across Europe to learn from and discuss the experiences of diverse cities. It will challenge you to look at transport from different users' perspectives. It is an engaging exercise with lots of discussion and (hopefully) consensus-building. Don't miss this opportunity to be Europe's most transport-savvy Mayor.</p>	<p><u>Accessibility</u> Sponsored by the Young Researchers' and Practitioners' Forum Session Chair: Doina Olaru, University of Western Australia, AU</p> <p>How to assess accessibility? subjective accounts, objective measurements or both? J Ryan, Lund University and K2 The Swedish Knowledge Centre for Public Transport, SE; R H M Pereirac, TSU, University of Oxford, UK and Ipea Institute for Applied Economic Research, BR Cycling during pregnancy and with a baby A Gering, Verkehr mit Köpfchen, DE Moving transit forward: how major transit infrastructure progresses from conception to construction in London and Toronto P Andison, Arup, UK</p>	<p><u>Workshop</u> Sponsored by the Young Researchers' and Practitioners' Forum Ines Kawgan-Kagan, DLR, DE Scientific Writing</p> <p>Supposed to write your (first) scientific paper and not really an idea where to start? Transportation needs planning – so does scientific writing!</p> <p>This workshop helps you to discover your hidden writing skills by offering strategic management of the process from composing a stunning abstract over efficiently structuring the manuscript to formatting issues. In addition, you will learn about peer-review processes and get tips and tricks to improve your writing.</p>	<p><u>Sharing</u> Sponsored by the Young Researchers' and Practitioners' Forum and the Global Issues Impacting Transport Programme Committee Session Chair: Jo Baker, Mott MacDonald, UK</p> <p>Cooperative sharing mobility concepts L Mosshammer, AustriaTech, AT Assessing ridesharing's potential to reduce congestion during commute S Shirazi, E Ryeng, NTNU, NO The distributional impacts of car sharing M Shepherd, D Jevons, Oxera, UK</p>
	<p>Room: Castle Hall, Level 1</p>	<p>Room: Castle Hall, Level 1</p>	<p>Room: Castle Hall, Level 1</p>	<p>Room: Castle Hall, Level 1</p>
	<p>Room: Balcony Room</p>	<p>Room: Balcony Room</p>	<p>Room: Balcony Room</p>	<p>Room: Balcony Room</p>

<p>Data</p>	<p><u>Innovating with mobile phone data to understand travel in London – insights, methods and findings</u> Sponsored by the Data Programme Committee Session Chair: Derek Halden, DHC Consultants, UK</p> <p>Estimating demand from mobile network data in London: insights P Hanson, R Tolouei, AECOM; S Rutherford, T Beech, Jacobs; C Wroe, Telefonica; D Marin, Movement Strategies; A Davies, Transport for London; H Neffendorf, Katalysis, UK</p> <p>Estimating demand from mobile network data in London: purpose P Hanson, R Tolouei, AECOM; S Rutherford, T Beech, Jacobs; C Wroe, Telefonica; D Marin, Movement Strategies; A Davies, Transport for London; H Neffendorf, Katalysis, UK</p> <p>Room: La Touche Room</p>	<p><u>Mobile Data</u> Sponsored by the Data Programme Committee Session Chair: Philip Clarke, Jacobs, UK</p> <p>The traffic agent V F Rørholt, Oslo Kommune, NO</p> <p>Real time short term prediction of traffic states using mobile phone data R Prince, P Perret, CitiLogik Limited, UK</p> <p>To what extent can we utilise mobile phone data? D Blazy, B Cuillier, C Derome, RATP; K Mokrani, D Renaud, S Fock, S Bourgeois, ORANGE; V Leblond, EdgeMind, FR</p> <p>Room: La Touche Room</p>	<p><u>International Traffic</u> Sponsored by the Data Programme Committee Session Chair: Gav Jackman, Aimsun, UK</p> <p>TN-ITS GO; Ireland's steps towards a harmonised European service for fresh and accurate road-network map data P Lewis, T McCarthy, Maynooth University; J McCarthy, M Malone, Department of Transport, Tourism and Sport, IE</p> <p>A model of a traffic control system in Dublin J Marecek, T Tchakan, IBM Research; B O'Brien, APO'Connor, Dublin City Council, IE</p> <p>Room: La Touche Room</p>	
<p>Freight and Logistics</p>	<p><u>TEN-T Network Development</u> Sponsored by the Global Trends impacting Transport and Freight and Logistics Programme Committees Session Chair: Jan Kiel, Panteia, NL</p> <p>Traffic safety impact of the TEN-T network, with special regard to potential accident reductions in the West Balkans C Kelen, Arup, UK</p> <p>The freight transport accessibility through Europe: the multi-criteria evaluation of intermodal (rail/road) freight transport corridors M Janić, Delft University of Technology, NL</p>	<p><u>The Belt and Road Initiative</u> Sponsored by the Global Trends impacting Transport and Freight and Logistics Programme Committees Session Chair: Peter Endemann, Regionalverband FrankfurtRheinMain, DE</p> <p>China Belt and Road initiative: measuring the impact of improving transportation connectivity on international trade H Lu, C Rohr, A Knack, M Hafner, RAND Europe, UK</p> <p>The New Silk Road bonanza: how will proposed infrastructure capacities and prognosed demand between East Asia and Europe align in the future? A Labinsky, H-P Kienzler, Prognos AG, DE</p>		<p><u>Truck Automation</u> Sponsored by the Freight and Logistics Programme Committee Session Chair: Morag White, WSP, UK</p> <p>A smart data integration framework: seeking the benefits for the end users (trucking companies) V Carlan, T Huybrechts, P Hellinckx, T Vanelslender, University of Antwerp, BE</p> <p>Opening up new ways from energy-efficient semi-automated truck convoys W Aigner, HiTec, AT; U Plank-Wiedenbeck, Bauhaus-University Weimar, DE</p> <p>Room: Hibernia Centre Conference Room</p>

		<p>The “Belt and Road Initiative”: impacts on TEN-T and on the European transport system D Dunmore, S Ellis, A Preti, C Routaboul, Steer (formerly Steer Davies Gleave), UK</p> <p>Room: Hibernia Centre Conference Room</p>		
Transport Economics, Finance and Appraisal	<p><u>Wider Impacts</u> Sponsored by the Transport Economics, Finance and Appraisal Programme Committee Session Chair: Lorraine D’Arcy, Dublin Institute of Technology, IE</p> <p>How to implement wider economic benefits in transport appraisals? an account of the Norwegian experience E Tveter, Møreforskning Molde AS; J Odeck, Norwegian University of Science and Technology, NO Capturing the wider economic impacts of transport investment – a case study approach J Nava, C Worsdall, Department for Transport, UK</p> <p>Room: President’s Room</p>	<p><u>Wider Impacts – methods</u> Sponsored by the Transport Economics, Finance and Appraisal Programme Committee Session Chair: John Siraut, Jacobs, UK</p> <p>Understanding the real economy impacts of transport and planning strategies L Atter, C Dosad, C Smith, KPMG; D Simmonds, L Lees, David Simmonds Consultancy Ltd., UK Do modelling limitations affect potential transformative transport schemes? G Smith, G Tenekeci, Jacobs, UK Framing the influence area of infrastructure investments, a soft approach F Gundersen, J Aarhaug, W Hanssen, Institute of Transport Economics (TOI), NO</p> <p>Room: President’s Room</p>	<p><u>Wider Impacts/Rail</u> Sponsored by the Transport Economics, Finance and Appraisal Programme Committee and the Young Researchers’ and Practitioners’ Forum Session Chair: John Siraut, Jacobs, UK</p> <p>Wider economic impacts along the Aberdeen to Inverness rail corridor S Patel, T M Lundie, T O’Leary, Sweco, IE On track towards economic growth and improved regional development? – a study of the impacts of railroad investments J Holmgren, A Merkel, Molde University College, NO The economic impact of urban rail transit network systems A M Gonzalez-Zaera, Jacobs, UK</p> <p>Room: Presidents’ Room</p>	<p><u>Evaluation</u> Sponsored by the Transport Economics, Finance and Appraisal Programme Committee Session Chair: David Simmonds, David Simmonds Consultancy, UK</p> <p>Ex post evaluation of major transport infrastructure projects G de Jong, Significance and ITS Leeds, NL and UK; S Vignetti, C Pancotti, CSIL Centre for Industrial Studies, IT Exploring announcement effects: an econometric analysis of the pre-opening impacts of Crossrail L Miles, J Jedrasiak, Arup, UK The accuracy of traffic forecasts for fixed link projects: an empirical study of Norwegian bridges and tunnels M Welde, Norwegian University of Science and Technology; E Tveter, Møreforskning Molde AS / Molde University College; J Odeck, Norwegian University of Science and Technology and Norwegian Public Roads Administration, NO</p> <p>Room: President’s Room</p>
Mobility as a Service	<p><u>Winning over the sceptics – delivering MaaS on a national scale</u> Summary: Delivery and upscale of MaaS at a regional or national level will require cooperation and collaboration from multiple different stakeholders, from public transport operators and local authorities to transport agencies and technology suppliers. However, despite the potential benefits of MaaS being well documented, there remains a significant degree of scepticism among those who could help deliver it. This interactive session will facilitate an open and honest discussion that will explore why this is still the case and what the MaaS community could be doing to address outstanding concerns.  Panel participants to include: Ally McInroy, MaaS Scotland Stuart Turnbull, Jacobs Douglas Gilmour, TomTom</p> <p>Room: Poddle Room</p>	<p><u>Mobility as a Service</u> Sponsored by the Intelligent Mobility – management and operations Programme Committee Session Chair: Henk Taale, Road Traffic and Traffic Management, RWS, NL</p> <p>Autonomous emergency manoeuvring &amp; movement monitoring for road transport security - TransSec N Padmaprabhu, Telecommunications Software and Systems Group (TSSG), IE Motion Hub, the implementation of an integrated end-to-end journey planner K Bevis, University of Hertfordshire and EValu8 Transport Innovations Limited; S Copsey, University of Hertfordshire; R Fenner, eCar Club Limited., UK</p> <p>Room: Poddle Room</p>	<p><u>Mobility as a Service</u> Sponsored by the Global Issues impacting Transport Programme Committee Session Chair: Samya Ghosh, AECOM, UK</p> <p>MaaS requirements for Irish mobility issues O O’Halloran, P O’Keeffe, J Cunningham, Ove Arup and Partners Ltd., IE Changes on transport services approaches within the self-drive vehicle development A Aliaga, D Caubel, Cerema, FR Conjoint analysis of combined mobility packages B Maas, TU Dresden, DE</p> <p>Room: Poddle Room</p>	<p><u>Mobility Choice</u> Sponsored by the Global Issues impacting Transport Programme Committee Session Chair: Mark Wardman, Systra, UK</p> <p>Mobility for liveable cities: investigating the determinants of commuters’ choices P Lanzini, A Stocchetti, Ca’ Foscari University (Venice), IT New trends in passenger choice in multimodal door-to-travels I Laplace, N Lenoir, Civil Aviation University, University of Toulouse, FR Are the millennials less car-oriented? literature review and empirical findings R Grimal, CEREMA, FR</p> <p>Room: Poddle Room</p>

<p>Autonomous Vehicles</p>	<p><u>New Methods for Modelling Connected and Autonomous Vehicles</u> Sponsored by the Transport Models Programme Committee Session Chair: Aurore Remy, Aimsun, FR</p> <p>CAVs and forecasting traffic and revenue for transport concessions L Willumsen, Kineo Analytics, UK Solving stochastic assignment to transportation networks with TVs and AVs G E Cantarella, Università degli Studi di Salerno, DICIV; A Di Febraro, O Giannattasio, Università degli Studi di Genova, DIME, MDi Gangi, Università degli Studi di Messina, DipIng, IT</p> <p>Room: Printworks Conference Centre</p>	<p><u>Autonomous Vehicles</u> Session Chair: Gav Jackman, Aimsun, UK Sponsored by the Transport Models Programme Committee</p> <p>Automated vehicles in public transport: deployment scenarios and expectations of users, providers and local authorities K Stark, K Gade, D Heinrichs, German Aerospace Center (DLR), DE Stepwise modelling of the impact of autonomous vehicles on the transport system in Germany for different scenarios L Kröger, C Winkler, T Kuhnimhof, German Aerospace Center (DLR), DE Mobilizing the immobile: the impact of supplying mobility constrained persons with autonomous vehicles FKoller, NSchmiede, V Kolarova, K Stark, German Aerospace Centre (DLR), DE</p> <p>Room: Printworks Conferene Centre</p>		<p><u>Truck Automation</u> Session Chair: Morag White, WSP, UK Sponsored by the Transport Models Programme Committee</p> <p>A smart data integration framework: seeking the benefits for the end users (trucking companies) V Carlan, T Huybrechts, P Hellinckx, T Vanelslander, University of Antwerp, BE Opening up new ways from energy-efficient semi-automated truck convoys W Aigner, HiTec, AT; U Plank-Wiedenbeck, Bauhaus-University Weimar, DE</p> <p>Room: Printworks Conference Centre</p>
<p>Transport Models</p>			<p><u>Estimation Challenges of Big Models</u> Sponsored by the Transport Models Programme Committee Session Chair: Dusica Krstic-Joksimovic, RWS, NL</p> <p>Developing national transport models: requirements and technical challenges in England, Turkey and Malawi T Gent, D Aspital, M Mahmud, A Allos, Atkins, UK Re-estimation and calibration of the Irish regional model system J Fox, RAND Europe; L Martin, Jacobs, US; B Colleary, National Transport Authority, IE</p> <p>Room: E207-E208</p>	
<p>Transport Models</p>	<p><u>New Methods for Modelling Connected and Autonomous Vehicles</u> Sponsored by the Transport Models Programme Committee Session Chair: Aurore Remy, Aimsun, FR</p> <p>CAVs and forecasting traffic and revenue for transport concessions L Willumsen, Kineo Analytics, UK Solving stochastic assignment to transportation networks with TVs and AVs G E Cantarella, Università degli Studi di Salerno, DICIV; A Di Febraro, O Giannattasio, Università degli Studi di Genova, DIME, MDi Gangi, Università degli Studi di Messina, DipIng, IT</p> <p>Room: Printworks Conference Centre</p>	<p><u>Modelling Time, Speed and Price Using Analytics</u> Sponsored by the Transport Models and Data Programme Committees Session Chair: Marco Kouwenhoven, Significance, NL</p> <p>Application of Google Maps journey time data in transport planning and modelling: a proof of concept study A Yusuf, S Khorgami, AECOM; C Hale, Leicestershire County Council; B Deng, AECOM, UK Pricing road use by the minute J Marecek, T Tchrakian, R Shorten, J Yuan Yu, IBM Research, IE</p> <p>Room: Courtyard Room</p>	<p><u>Modelling Transport with Analytics</u> Sponsored by the Transport Models Programme Committee Session Chair: Xiaoyan Xie, ENPC, FR</p> <p>Analysis of the effects of a fare discount scheme for multimodal public transport trips that involve transfers and multiple payments K Miyazaki, National Institute of Technology, Kagawa College; M Ito, The University of Tokyo; K Tanimoto, Tottori University, JP; T Fujiyama, University College London, UK Information provision in urban traffic management J Marecek, T Tchrakian, R Shorten, J Yuan Yu, IBM Research, IE</p> <p>Room: Courtyard Room</p>	<p><u>Developing More Accurate O-D Matrices from Mobile Phone Data</u> Sponsored by the Transport Models Programme Committee Session Chair: Philip Clarke, Jacobs, UK</p> <p>Trip matrix development: merging data from different sources when relative errors are unknown R Tolouei, S Psarras, AECOM, UK The use of mobile phone data in transport planning in the Netherlands: experiences and vision K Friso, J Henckel, S de Graaf, P van der Mede, DAT.Mobility; J Korf, N Aardoom, B Possel, Goudappel Coffeng; J van der Kooij, Mezero, NL</p> <p>Room: Courtyard Room</p>
<p>Highway Safety</p>	<p><u>Safety and Risk</u> Session Chair: Gav Jackman, Aimsun, UK</p> <p>Road geometry risk assessment A O'Connor, Trinity College Dublin; S MacGearailt, Roughan &amp; O'Donovan; T Casey, Transport Infrastructure Ireland, IE Road management in Ireland J McCarthy, Department for Transport, Tourism and Sport; S</p>			

	<p>Flynn, Road Management Office;  P Fox, Local Government Management Agency, IE  Collision data and road infrastructure management  A DeBeer, Transport Infrastructure Ireland; D  O'Connor, Transport Infrastructure Ireland; M Dolan,  DTTSA/Kildare CoCo, IE</p> <p>Room: Courtyard Room</p>			
<p><b>ALLIANCE&amp;SKILLFUL Projects</b></p> <p><b>Partnerships for innovation, skills and jobs and how to engage the profitable international cooperation</b></p>				<p><b><u>Education and Training – New challenges towards the Future Transport</u></b></p> <p><b>Presentations and roundtable discussion</b></p>
<p><b>Special Session</b></p>				

## **Annex B: Agenda of ETC 2018 Special Session and Photos**

## ETC 2018 Session: Education and Training – New challenges towards the Future Transport

This special session in the frame of the ETC aims on giving information about projects and providing public with progress and findings of the projects **with strong emphasis on development of linkage among education, research and industry.**

### **AGENDA**

- 6) (15min) *ALLIANCE Project: Partnerships for innovation, skills and jobs and how to engage the profitable international cooperation (Prof. Irina Yatskiv (Jackiva), TTI)*
- 7) (20min) **New educational program on intermodal connections** (Dr. Giannis Adamos, UTH)
- 8) (15min) *Assessing knowledge of stakeholders on sustainable interchanges' design and operation (Dr. Mihails Savrasovs, TTI)*
- 9) (20min) *SKILLFUL Project: Skills and competences development of future transportation professionals at all levels (Mrs. Matina Loukea, CERTH/HIT)*
- 10) (20min) *SKILLFUL Project: Training needs and skills gaps across the transportation sector. (Ms. Grace Moloney, UCD).*

**Round Table with discussions between researchers and stakeholders invited by projects (30 min).**

Focus:

- ✓ *How to facilitate stakeholder collaboration and the development of strong linkage among education, research and industry?*
- ✓ *How we can focus education, research and innovation activity on social and economic development?*
- ✓ *Balanced combination to the triplex of research/education, industry and policy makers, acknowledging the key role of society. How to increase related R&I impact and exploitation?*
- ✓ *How to identify the skills and competences needed by the Transport workforce of the future?*

### **Round table key participants**

- **Inta Rozenšteine**, Department of Finance and Development Planning of Ministry of Transport, Deputy Director (Latvia)
  - **Dr.Sc.Ing. Vaira Gromule**, JSC "Riga International Bus and Coach Terminal", Chairman of the Board (Latvia)
  - **Evelina Budilovica**, Riga municipality (Latvia)
  - **Mrs. Matina Loukea**, Hellenic Institute of Transport, (Greece).
  - **Grace Moloney**, University College Dublin, (Ireland)
- Questions from participants.

**Round Table Rapporteur:** Ms. Kristina Malnaca and M.A. Evelyn Fischer

### **Names of the session coordinator(s)**

**Names of the session coordinator(s)**

**Alliance Project ([www.alliance-project.eu](http://www.alliance-project.eu))**

- *Prof. Irina Yatskiv (Jackiva), Transport and Telecommunication Institute, Riga, Latvia, Email: [Jackiva.I@tsi.lv](mailto:Jackiva.I@tsi.lv)*
- *Prof. Giannis Adamos, Traffic, Transportation and Logistics Laboratory, University of Thessaly, Volos, Greece, Email: [giadamos@civ.uth.gr](mailto:giadamos@civ.uth.gr)*

**SKILLFUL Project** ([skillfulproject.eu](http://skillfulproject.eu))

- *Mrs. Matina Loukea, Research Associate at the Hellenic Institute of Transport, Athens, Greece.*  
Email: [mloukea@certh.gr](mailto:mloukea@certh.gr)
- *Ms. Grace Moloney, PhD candidate at University College Dublin, Ireland.*  
Email: [grace.moloney.2@ucdconnect.ie](mailto:grace.moloney.2@ucdconnect.ie)

**ALLIANCE** is a H2020 funded project in the frame of TWINN activity ([www.alliance-project.eu](http://www.alliance-project.eu)). The partners of the project are: Transport and Telecommunication Institute, Riga, Latvia (leader); University of Thessaly, Volos, Greece; Fraunhofer Institute for Factory Operation and Automation IFF, Magdeburg, Germany. The scope of ALLIANCE is the enabling of stimulating and strengthening the scientific and technological capacity of Latvia and the raising of the profile of the research staff and their institution, by providing knowledge in the field of smart interconnecting sustainable transport networks. This knowledge transfer will build the grounds for a common understanding of the main components affecting sustainable intermodality and support the selection and management of the most optimal and applicable solutions for transport interchanges.

**SKILLFUL** is a H2020 funded project ([skillfulproject.eu](http://skillfulproject.eu)) and its Consortium consists of 21 Partners, all with great experience and expertise in Transportation issues for all modes. The Coordinator of SKILLFUL is FEHRL ([www.fehrl.org](http://www.fehrl.org)), while CERTH/HIT acts as its Technical Manager ([www.hit.certh.gr](http://www.hit.certh.gr)). SKILLFUL vision is to identify the skills and competences needed by the Transport workforce of the future (2020, 2030 and 2050 respectively) and define the training methods and tools to meet. More particularly, SKILLFUL aim is threefold:

- to critically review the existing, emerging and future knowledge and skills requirements of workers at all levels in the transportation sector, with emphasis on competences required by important game changers and paradigm shifters (such as electrification and greening of transport, automation, MaaS, etc.);
- to structure the key specifications and components of the curricula and training courses that will be needed to meet these competence requirements optimally, with emphasis on multidisciplinary education and training programmes;
- to identify and propose new business roles in the education and training chain, in particular those of “knowledge aggregator”, “training certifier” and “training promoter”, in order to achieve European wide competence development and take-up in a sustainable way.



**Mrs. Matina Loukea, HIT and Prof. Irina Yatskiv (Jackvia), TTI**

Foto: Evelyn Fischer, IFF



**Mrs. Matina Loukea, HIT, Prof. Irina Yatskiv (Jackvia), TTI and Dr. Giannis Adamos, UTH**

Foto: Evelyn Fischer, IFF



**Prof. Irina Yatskiv (Jackvia), TTI and Mrs. Matina Loukea, HIT**

Foto: Evelyn Fischer, IFF



**Mrs. Matina Loukea, HIT, Prof. Irina Yatskiv (Jackvia), TTI and Ms. Grace Moloney, UCD**

Foto: Evelyn Fischer, IFF



**Mrs. Inta Rozensteine, ALLIANCE SAP member, Department of Finance and Development Planning of Ministry of Transport (Latvia)**  
Foto: Evelyn Fischer, IFF



**Mrs. Evelina Budilovica, Riga municipality (Latvia),** Foto: Evelyn Fischer, IFF



**Mr. Tom Assmann, Fraunhofer IFF**  
Foto: Evelyn Fischer, IFF



**Mrs. Inta Rozensteine, Dr. Vaira Gromule - ALLIANCE SAP members, ALLIANCE and SKILLFULL institutions' representatives**

## **Annex C: SAP Evaluation Forms**

**Enhancing Excellence and Innovation Capacity in  
Sustainable Transport Interchanges**

**ALLIANCE**

(Grant agreement no.: 692426)

**European Transport Conference 2018: ALLIANCE&SKILLFUL Special Session**

*Dublin Castle, Dublin, Ireland*

*10-12 October 2018*

**European Transport Conference 2018: ALLIANCE&SKILLFUL Special Session  
Evaluation by SAP member**

**1. SAP Name, Surname:**

xxxxxxxxxxx

**2. Please indicate your level of agreement with the statements listed below:**

<b>Issue</b>	<b>Strongly Agree</b>	<b>Agree</b>	<b>Neutral</b>	<b>Disagree</b>	<b>Strongly Disagree</b>
The objectives of the event were clearly defined		x			
Participation and interaction were encouraged	x				
The content was organized and easy to follow	x				
The presenters were well prepared	x				

The materials presented are in frame of ALLIANCE project	x				
The objectives of the event were met		x			
The time of the event was sufficient		x			
The meeting room and facilities were adequate and comfortable	x				

**3. What did you like most about this event?**

**The opportunity to get acquainted with the SKILLFUL project, which largely complemented with the ALLIANCE project**

**4. What aspects of the event could be improved?**

**The event was successful. It would be important to have a minutes of the meeting, which would highlight the main conclusions and proposals. As far as I know, such a document is being prepared?**

**5. Any comments**

**It would be highly desirable to continue this kind of project on the basis of the conclusions drawn**

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Evaluation by SAP member**

1. SAP Name, Surname:

xxxxxxxxxxx
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2. Please indicate your level of agreement with the statements listed below:

Issue	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
The objectives of the event were clearly defined		X			
Participation and interaction were encouraged		X			
The content was organized and easy to follow		X			

The presenters were well prepared	X				
The materials presented are in frame of ALLIANCE project	X				
The objectives of the event were met	X				
The time of the event was sufficient			X		
The meeting room and facilities were adequate and comfortable		X			

**3. What did you like most about this event?**

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**4. What aspects of the event could be improved?**

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**5. Any comments**

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