Preliminary Programme as of 20.04.17

12th European Congress and Exhibition on Intelligent Transport Systems and Services

Strasbourg, France
19–22 June 2017
www.itsineurope.com
ACKNOWLEDGEMENTS

The Organisers of the 12th ITS European Congress would like to thank the Sponsors and Partners for their contribution and support to make this Congress a success bringing forward the transportation and mobility sector.

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ORGANISERS AND HOSTS

ERTICO – ITS Europe
ERTICO – ITS Europe is a public-private membership-driven organisation promoting – and actively working on – the deployment of intelligent transport systems and services (ITS) in Europe through a variety of activities, such as interest groups, innovation platforms, events and projects to save lives, protect the environment and sustain mobility in the most cost-effective way. ERTICO was founded in 1991 at the initiative of 16 leading members of the European Commission, Ministries of Transport and the European Industry. Now, with over 120 shareholders, ERTICO connects public authorities, industry players, infrastructure operators, users, national ITS associations and other organisations and works to bring “Intelligence into Mobility”.

European Commission
The European Commission represents the general interest of the EU and is the driving force in proposing legislation (to Parliament and the Council), administering and implementing EU policies, enforcing EU law (jointly with the Court of Justice) and negotiating in the international arena.

Strasbourg Eurometropolis
Strasbourg’s history makes it an international and cosmopolitan city, with a strong local tradition of knowledge and excellence. It shares, with New York and Geneva, the privilege of being the seat of international organisations, such as the European Parliament and some 90 diplomatic representations, without itself being a national capital.

The city and its surroundings are now facing new challenges with regard to attractiveness and competitiveness. The new status of Eurometropolis of Strasbourg, which came into being in January 2015, is unique in France and underpins the city’s role as a European capital and cross-border territory, with its 33 municipalities and 477,000 inhabitants.

The Eurometropolis of Strasbourg, humanist and europtimist, is a city with its sights set firmly on the future. It plays a leading, innovation-led role in a number of sectors, including urban development (with the Ecocité programme), healthcare, medical technologies and innovative mobilities.
European Commission

The European Commission is very pleased to invite you to the 12th European ITS Congress, to be hosted in the city of Strasbourg from 19th to 22nd June 2017.

The main theme of the Congress, ITS Beyond Borders, is of the utmost relevance for all of us. The single market, an area without internal borders with the free movement of goods, persons, services and capital, can only be achieved when we work together to remove technical and regulatory barriers. Breaking down such barriers is also at the heart of the deployment of ITS. In order to be effective, the roll-out of ITS needs to be coherent and properly coordinated across the EU by public and private bodies. ITS Beyond Borders should not only represent the interoperability and continuity of ITS between regions and Member States but also between different modes of transport facilitating multimodality.

A wide range of innovative solutions are available, such as digitalisation in passenger and freight transport and connected and automated driving. To support their development and deployment across Europe cross-sectional and cross-border cooperation is indispensable. We need to fully tap the potential of digital technologies and let the Digital Society become a reality. It is not sufficient to respond only to current mobility demands, but also to be proactive in anticipating future needs, challenges and options. The ITS Directive, Digital Single Market and Energy Union along with funding instruments of Horizon 2020 and Connecting Europe Facility are essential in this regard.

In order to serve such discussions with stakeholders, Strasbourg will serve as an iconic hub at the heart of Europe on how to get ‘Europe Connected’. The 12th ITS European Congress will be an ideal opportunity to share and enrich our knowledge as well as show our strong commitment to role and importance of Intelligent Transport Systems.

Yours sincerely,

Violeta Bulc, Member of the European Commission
Carlos Moedas, Member of the European Commission
Günther Oettinger, Member of the European Commission

Secretary of State for Transport, Sea and Fisheries, Ministry of Environment, Energy and the Sea

It will be a great pleasure to welcome you in France again in 2017, less than two years after the large success of the 22nd ITS World Congress in Bordeaux. This time Strasbourg Eurometropolis, as a major place of the evolving European construction process, will offer the 12th ITS European Congress an ideal setting. More than a setting, a living laboratory of ITS deployment and a life-size showcase for solutions and projects that bring value-to-user and collective benefits throughout a wide transnational space.

For our part, all French key players in ITS and transport at large are involved in preparing this Congress with ERTICO and the host city and partners. My own services, together with ATEC ITS France, are heavily mobilising so to ensure that Strasbourg Congress is exceptionally rich in experience and innovation-sharing, and genuinely fruitful to all of you. And enjoyable too.

In 2015, all the transport ministers gathered in Bordeaux at our invitation did state their confidence in IT solutions being able to help significantly preserving our planet through mobility reshaping. They called for multiplying local experimentations and projects. In Strasbourg, two years after the Paris agreement on climate, we should be able to ascertain the magnitude and impacts of this huge movement, provider of concrete and innovative solutions to address this universally recognised objective. A market-driven wave, supported and called for by most mobility authorities of all levels around the world.

That is why all your ideas, proposals and experiences are very welcome to this event, the success of which will be yours.

Together, we intend to mark one more memorable milestone in the current ITS breakthrough.

Alain Vidalies, Secretary of State for Transport, Sea and Fisheries, Ministry of Environment, Energy and the Sea, France
Mayor of Strasbourg, President of the Eurodistrict Strasbourg-Ortenau

As Mayor of Strasbourg and President of the Eurodistrict Strasbourg-Ortenau, I am very pleased to welcome you in our cross-border region located at the heart of Europe.

How to present all of Strasbourg’s various aspects?
Its more than two thousand years history; its geography in the heart of Europe on the Rhine valley; its culture at the cross roads of Germanic and Latin influences and their traces on the architectural heritage recognised by the UNESCO.

How to introduce the 7th French city that besides Geneva and New York, is one of the world only international capital city without holding a state capital status?

How to refer to its centre place in the heart of Europe?

How to tour the various European institutions that she hosts and bring to mind its cosmopolitan character, its university of excellence, its strategic location in the intersection of multiple transports and communication networks?

How to portrait this avant-gardist city for urban mobility giving its inhabitants an exceptional quality of life where a certain “art-de-vivre” can be experienced in parks and gardens, through museums and auditoriums or in its gastronomic restaurants?

At last but not least, how to explain the genesis of our brand “The Europtimist” that sums up in one word the audacity of the innovations generated on our territory, its entrepreneurship spirit as well as its economic and scientific inventively?

Strasbourg is also part of the Eurodistrict-Ortenau. As a European Grouping of Territorial Cooperation (EGTC) the Eurodistricts’ main objective is making fall barriers between countries and being a laboratory of European citizenship. Which topic could be more helpful than intelligent transport systems which help persons to optimize trips in both countries and to find solutions to improve security and accessibility?

Our region is an important European transport hub where several axes cross. Intelligent systems are necessary for making traffic fluent, efficient and environment-friendly.

Here, the “land of cars” (Baden-Württemberg) meets the “land of storks” (Alsace). So, ideas get wings! Together, most innovative and sustainable solutions are developed, tested and implemented.

We are very proud to welcome you in 2017 for the 12th ITS European Congress and show you the richness and enthusiasm of our city and our region.

Enjoy Strasbourg where intelligent transport systems know no limits!

Roland Ries, Mayor of Strasbourg, President of the Eurodistrict Strasbourg-Ortenau, France
President Eurometropolis of Strasbourg and Economic Development Vice-President for the Eurometropolis of Strasbourg, President of Strasbourg Autonomous Port

It is with great pleasure that we welcome you in Strasbourg, just a couple of years after the successful ITS World Congress in Bordeaux. Strasbourg considers it is a real opportunity to host the 12th ITS European Congress and present the specificities in mobility of a cross-border region.

For more than 20 years the city of Strasbourg and its metropolis, in association with other partners, have been leaders in innovative mobility. During the 90’s, Strasbourg was the first city in France to reintroduce the tramway in order to change the way the city operated and to contribute to the improvement of the environment. In 2017, Strasbourg tramway network will be the first transborder system offering a couple of stations in the border city of Kehl and providing access to the transportation system of the German side.

Strasbourg Eco 2030 roadmap pinpoints digital as a crucial driver for economic development and more specifically for the deployment of intelligent mobility. High investments and large scale projects based on public/private partnerships are being deployed on our territory such as the construction of a connected urban highway contouring Strasbourg city that aims to manage traffic in transit through the urban area as well as to become one of the biggest “open road living lab”.

Such projects as well as the ITS Congress will help Strasbourg transition from a “mobility laboratory” into an “open territory living lab” both as a project generator and as an incubator which benefit the entire Upper Rhine region.

The 12th ITS European Congress will give companies the opportunity to focus on the people and the users of these systems as intelligent mobility becomes more and more a service. Strasbourg strategic location in the intersection of multiple transports and communication networks makes it a wonderful site to share experiences on topics and projects as diverse as MaaS, urban logistics, inland waterway transport or environment impact of smart mobility.

ITS Beyond Borders is a theme for sharing, experiencing and challenging what ITS have been so far.

With you we will continue to build Strasbourg for the future: a human city, attentive to social innovations and its environment and cradle of Europe experienced by its citizens.

We hope all the participants will have a wonderful time here …. Strasbourg is yours to discover!

Robert Herrmann, President Eurometropolis of Strasbourg, France
Catherine Trautmann, Economic Development Vice-President for the Eurometropolis of Strasbourg, President of Strasbourg Autonomous Port, France

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#ITSStrasbourg17
President of Strasbourg Transport Company (CTS)

I am delighted to welcome you to the 12th ITS European Congress in Strasbourg.

As Strasbourg Transport Company (CTS) President, one of my key responsibilities is to build, in association with the local authorities, an efficient transport network for Strasbourg and its surroundings.

Strasbourg has a long history in the use of Intelligent Transport Systems (ITS). Innovation and creativity are the drivers of the City's ITS successes.

The CTS also contributes to build the city of the future with our cross-border metropolis. As a project manager for the extension towards the German city of Kehl, we also took under consideration the environment and quality of life aspects. The results are two beautiful and avant-garde bridges transforming the urban face of both sides of the Rhine River.

Beyond this spectacular outcome, the CTS participates in the development of new products and services for the everyday life of all users with a customer-centric strategy. Thus the user is put in the centre of the organisation and at the heart of the innovations.

For example, I can mention the NFC Mobile App for travellers (called UGO and transfer to the industry) or the “Mobility Pass”, our very unique multimodal service presented as a public transport pass giving access to several services such as park and ride parking, bus and tramway, car- and bike-sharing, etc.

We are working on developing clean, ecological relevant and economical effective solutions. Based on users’ feedbacks we believe we are succeeding in reaching these goals … most of the time.

During your stay, our services will be more than happy to welcome companies, projects holders on our transport network to share and experience together.

I hope you will find Strasbourg to be a fertile ground for your experiments and new horizons and look forward to seeing you taking ITS Beyond Borders.

Alain Fontanel, President of Strasbourg Transport Company (CTS), France

ERTICO – ITS Europe

On behalf of the ERTICO – ITS Europe Partnership, I would like to invite you to attend and participate in the 12th ITS European Congress which will be held in Strasbourg, France, from 19–22 June 2017. Hosted by the City and Eurometropolis of Strasbourg, this event promises to deliver an exciting and informative programme under the theme ITS Beyond Borders.

The Congress will focus on intelligent mobility users, crossing borders in their daily lives and on a number of topics exploring the many facets of ITS including mobility services, next generation goods delivery, the evolution of transport networks, connected and automated transport, satellite technology applied to mobility and ITS and the environment. The extensive Exhibition will showcase technologies and services designed to enhance mobility at all levels and across all borders.

The Congress will also host the second Mayor’s summit which will bring together city mayors and leaders from across Europe, enabling them to share experiences, best practices and opportunities for delivering seamless travel through sustainable, efficient and innovative mobility solutions.

Strasbourg occupies a strategic position in the heart of Europe and is a pioneer of urban travel boasting the largest tram system in Europe as well as providing a benchmark for sustainable and innovative mobility through its improvement of walkability, extensive network of cycle tracks, car sharing schemes and a new road code, thus delivering an excellent quality of life for its inhabitants.

I very much look forward meeting you at the greatest gathering of the ITS community in the heart of Europe.

Cees de Wijs, Chairman Supervisory Board, ERTICO – ITS Europe
Plenary sessions

All attendees are welcome to join the Opening and Closing Ceremonies and Plenary Sessions in which major personalities from today’s world of ITS will present their personal views on key ITS issues.

Executive sessions

In these Sessions a range of senior experts including high-level industry executives, public officials and academics will draw from their experiences to discuss key topical policies, problems and issues. As well as reviewing current challenges and achievements these Sessions provide an exciting opportunity to learn about future ITS initiatives.

Special Interest sessions

Organised at the request of organisations or groups of experts developing and deploying ITS, these interactive, tailor-made meetings create an opportunity to explore in-depth specific topics.

Technical/Scientific sessions

These Sessions are composed of presentations by international experts on varying ITS related topics encompassing all technical, scientific, economic, organisational and societal aspects of ITS. They aim to encourage and enable the exchange of information on deployment ranging from improving the operational use of systems and services on the one hand to research and development in support of new applications on the other.

Commercial paper sessions

These are presentations of Technical or/and Scientific Papers judged by reviewers and the International Programme Committee to be near-market rather than pre-market. Commercial Papers describe an activity aimed at generating or improving a specific product, device or idea for the market. Papers will be assembled around similar themes and presented in groups with a moderator.

Project dissemination sessions

These are Special Interest Session proposals which the Programme Committee considered had significant emphasis on presentation of results from one or more important projects.

Click here to view the Programme at a Glance.
PLenary Sessions

Opening ceremony

You and your accompanying person(s) are cordially invited to attend the Opening Day of ITS Strasbourg 2017. The Opening Day will finish by the Opening of the Exhibition and the Welcome Reception in the Exhibition. The Ceremony will close with some entertainment and will be followed by a keynote speech by ASFA.

Plenary session 1 – Mobility across borders

TOPIC: 1. Mobility services – from transport to mobility

This session will explore how transport networks are affected by borders. Two key questions will be asked: ‘How can ITS enable goods and people to travel seamlessly across different transport networks with potentially different regulatory regimes?’ and ‘How can ITS break down boundaries between different modes of transport?’ Key opinion-formers will tackle issues surrounding cross-border infrastructure and mobility, as well as hot topics like Mobility as a Service (MaaS) and transport-sharing. Speakers will also discuss strategies for overcoming the challenges faced by intermodal transport networks. The session will emphasise the potential of ITS as a cross-border tool, helping participants develop strategies to go beyond borders and maximise interconnected and intermodal mobility.

Plenary session 2 – Smart cities and future ports: what is the role of ITS?

TOPIC: 2. Next generation goods delivery

The relationship between ports and cities is changing. Ports tend to be located further from cities than in the past, while logistics functions have moved further inland. This has led to a reduction in shared economic benefits between the two. Digitalisation is playing a growing role in the evolution of transport networks, but digital networks have had different focuses for cities and ports. As a result the link between them has become weaker, rather than stronger. This session will discuss the benefits of ‘the port of the future’, and explore smart integration of port activities within cities. It will examine emerging concepts like dry ports and inland ports, alongside opportunities to develop improved social integration. Several key questions will be asked: How can smart cities and the ‘port of the future’ deliver better productivity and service? Will this depend on significant investments in new technology? Will it require a rethink of existing technologies and operational mindsets? Can passengers and freight share the same mobility services? The answers to these key questions will help identify strategies for harnessing the potential of connected and integrated ports and cities.
Plenary session 3 – Cooperative, connected and automated mobility

TOPIC: 4. Connected and automated transport
11:00 – 12:15 (Cassin Auditorium)

Fully connected and automated driving are fast becoming a reality. The potential benefits for providers, governments and society extend beyond borders and are likely to influence safety, efficiency and mobility. Its impacts go beyond road transport, with opportunities to link with maritime transport and aviation too. This session will address key deployment questions including: How will connected and automated technologies benefit public transport? What are the new scenarios and key deployment challenges? What are the technological and regulatory issues? Key issues like digitalisation and Big Data will also be discussed, along with a review of new initiatives in the pipeline from the European Commission. It’s an exciting time for the transport industry, with fast-paced technological developments prompting constant change and innovation.

Master of Ceremonies:
Katrina Sichel

Invited Speakers:
Invited Speakers will include representatives from the European Commission, public authorities, the Host city and industries.

Conclusions & closing ceremony
12:15 – 13:00 (Cassin Auditorium)

The Congress Conclusions will summarise the key moments of the week. The report is based on inputs prepared by a team of Rapporteurs and presented by Professor Eric Sampson, Chief Rapporteur.

The Closing Ceremony will include among others: official closing and keynote speeches, the Strasbourg 2017 highlights video, best session awards, Cross-Rhine Driverless Shuttle Challenge Award, video presentation and invitation to the 25th ITS World Congress in Copenhagen 17-21 September 2018.

Master of Ceremonies:
Katrina Sichel

Invited Speakers:
Invited Speakers will include representatives from the European Commission, public authorities, the Host city and industries.
ES01 – Digital infrastructure for cooperative, connected and automated mobility

TOPIC: 4. Connected and automated transport 11.00 – 12.30 (Rome)

Connected and automated vehicles need an accurate, real-time picture of the world around them to operate safely. Digital infrastructure can provide this by generating a live, dynamic mirror of the physical environment. But while this makes sense in theory, there are many practical hurdles to overcome. There’s a need to identify which elements of digital infrastructure are most critical to the safe operation of autonomous vehicles. And there are unanswered questions about which features of digital infrastructure are critical for different levels of automation. Other questions include how the quality of information within the digital infrastructure can be guaranteed, and where it should come from. Will some of the data be generated by vehicles, and how should changes to the physical infrastructure be incorporated into the digital model? Who will pay to develop and maintain the system? This session will examine these questions from the perspective of key stakeholders, including public bodies, transport authorities, traffic managers and the private sector.

Invited Speakers will include representatives from the European Commission, public authorities, cities and industries.

ES02 – Next-generation goods delivery

TOPIC: 2. Next generation goods delivery 14.00 – 15.30 (Rome)

The way we travel is changing. Pressures on road space are fuelling a move towards more public transport and fewer private cars. Heavy goods vehicles aren’t welcome in cities during the day, but consumers still expect an uninterrupted supply of goods and services. Devices of all types are now connected to the web, providing new data sets that are improving freight tracking. At the same time, the traditional passenger and freight transport network is undergoing a revolution. Truck platooning, trials of autonomous cars and developments in electric vehicles all have the potential to turn the logistics landscape on its head. It’s time for a radical rethink of how people and freight are moved, particularly in urban environments. The transport of goods and people is now interconnected and can’t be separated. New logistics networks must span multiple cities, but also look at novel ways of achieving ‘last mile’ delivery. In this rapidly changing landscape, the key question is how to create a future-proof and sustainable logistics system.

Invited Speakers will include representatives from the European Commission, public authorities, cities and industries.

ES03 – Satellite technologies applied to mobility

TOPIC: 5. Satellite technology applied to mobility 16.00 – 17.30 (Rome)

Are satellite technologies ready to support next-generation transport services? The latest space technologies powering the communication revolution such as 5G and OneWeb have the potential to drive a new wave of ground-breaking innovation in ITS. Seamless and affordable connectivity for both infrastructure and vehicles can be realised. The benefits of satellite-based positioning and navigation are well-understood. But key developments in ITS – particularly autonomous vehicles – require more accurate, robust and scalable positioning. This can be made possible by the combined use of sensing technology on the vehicle and new satellite services. Equally, the fusion of earth observation and terrestrial sensor data should deliver a comprehensive picture of network usage and traffic flows, along with environmental data like greenhouse gas monitoring and weather data. This session will explore the opportunities and challenges in detail.

Invited Speakers will include representatives from the European Commission, public authorities, cities and industries.
ES04 – Transport network evolution

TOPIC: 3. Transport networks evolution 09.00-10.30 (Rome)

Until recently, transport networks were defined by physical elements like roads, tracks and waterways. But new technology has created digital networks which complement this physical infrastructure, offering both opportunities and challenges. Most people are connected to the world around them through their smart devices. As more those become part of the Internet of Things, everything and everyone is becoming increasingly interconnected. Digital networks that exploit Big or Open Data are now opening up opportunities to enhance and redefine transport models. The world is moving fast and we need to rethink existing plans to take this transformation into account. This session will address key questions including: How will connected and automated vehicles link to both types of network? What data streams can we expect from these new technologies? Are interfaces available to integrate the Internet of Things with our current services, and if not, what is required? How will the new hybrid networks support the development of Smart Cities? What benefits will these changes bring to typical public transport users?

Invited Speakers will include representatives from the European Commission, public authorities, cities and industries.

ES05 – Mobility services – from transport to mobility

TOPIC: 1. Mobility services – from transport to mobility 11.00-12.30 (Rome)

Mobility as a Service (MaaS) is one of the hottest topics in intelligent transport. But with very few live schemes, it’s currently more of an aspiration than a reality. MaaS has the potential to break the traditional link between mobility and vehicle ownership. It offers the promise of ‘pure movement’, where customers tap into different modes of transport and purchase journeys on demand. But the challenges underpinning MaaS are enormous. Service providers need to deliver reliable travel in real time without controlling the means of transport. Transport providers must offer responsive services that will compete with private cars using collective or shared transport. A large dose of innovation is needed, and it’s not clear where this will come from. But whether start-ups or existing providers take the lead, the prize on offer is huge. Successful operators will learn about the entire end-to-end journey plans of their customers, creating a potential treasure trove of marketing information. So while the challenges of delivering MaaS are significant, the benefits are equally large.

Invited Speakers will include representatives from the European Commission, public authorities, cities and industries.

ES06 – ITS and the environment

TOPIC: 6. ITS and the environment 14.00-15.30 (Rome)

Demand for mobility is growing, and a new report predicts that policies for reducing transport-related CO2 emissions will fall far short of international targets. The most optimistic outcome is that transport CO2 emissions will still be at 2015 levels by 2050. So are we in denial, or do we lack the tools to tackle the problem? Unsustainable ways of travelling are currently the only option for many people. At the same time, information about environmentally friendly alternatives isn’t always presented clearly and convincingly. This makes it harder for governments and cities to make the long-term strategic decisions and investments required to tackle the problem. How can CO2 emissions be made to matter when choosing transport options? Should a new ‘currency’ be introduced to buy or sell kilogrammes of CO2? A radical move like that would have the potential to change behaviour, but is it a realistic option? This session will examine all these questions as it explores whether ITS can contribute to game-changing reductions in urban greenhouse gas emissions of between 20% and 50%. It will also look at whether personal choices and changes in behaviour have the potential to deliver the promised targets.

Invited Speakers will include representatives from the European Commission, public authorities, cities and industries.
Monday 19 June

**International SIS01 – Mobility as a service – new business and service approaches**

Mobility as a Service solutions will put users at the heart of the transport network, offering tailor-made travel services based on their preferences. MaaS has the potential to become the mobility service of choice for future generations. This session will consider the current status of MaaS and the latest progress from the MaaS Alliance. It will also consider the data sharing aspects that will be essential for effective MaaS services. It will also discuss the industry and city and regional perspectives of MaaS. This session will discuss how MaaS can deliver the smarter, simplified transportation landscape envisioned and expected by future users.

**Organiser**
Richard Harris, Real ITS Global, United Kingdom

**Moderator**
Thomas Kern, Cavita, United States

**Speakers**
- Krista Huhtala-Jenks, Ministry of Transport and Communications, Finland
- Robert De Beukelaer, Comtrade Digital Services, Slovenia
- Jana Sochor, Chalmers University of Technology, Sweden
- Jukka Lintusaari, University of Tampere, Finland
- Carme Fàbregas, Autoritat del Transport Metropolita, Spain

**International SIS02 – An international dialogue on roles of ITS in the New Urban Agenda**

The United Nations Conference on Housing and Sustainable Urban Development (Habitat III) held in October 2016 in Quito, Ecuador, successfully concluded with the adoption of the New Urban Agenda which defines all future lines of action in regards to the urban context for the UN Sustainable Development Goals leading up to 2030. ITS is a key enabler in achieving the high standards in sustainable urban development set by the New Urban Agenda, such as data driven transport policy and planning, new sustainable mobility solutions, automated vehicles for safer and more efficient driving, Mobility as a Service, dial-a-ride for disabled and elderly citizens. This session gathers various stakeholders from government, inter-governmental bodies and academia from all around world to set up an international dialogue to discuss current practices of ITS in sustainable urban development in various countries and potentials of ITS applications in addressing social, economic, environmental sustainability.

**Organiser**
Yanying Li, ERTICO – ITS Europe

**Moderator**
Patrick Mercier-Handisyde, European Commission, DG Research & Innovation

**Speakers**
- Tom Voege, OECD, France
- Stephane Dreher, United Nations Development Programme, France
- Bahar Namaki Araghi, City of Copenhagen, The Technical and Environmental Administration, Traffic Department, Denmark
- Caio Fontana, Federal University of Sao Paolo, Brazil
- Yanying Li, ERTICO – ITS Europe
- Maria Carbone, European Commission, DG MOVE

**International SIS03 – The Arctic Challenge – connected and automated driving in winter weather conditions**

As the race towards connected and automated driving gains speed, more attention needs to be paid to performance of new technologies in all possible weather conditions. Winter and its extreme weather conditions pose a specific challenge for automated driving with snow and ice reducing visibility on the roads, covering lane-markings and road signs as well as narrowing the lanes and making them slippery. The challenge is in ensuring that automated vehicles can navigate and stay on the road in snowy and icy conditions, but also in ensuring real-time monitoring of road conditions, proper timing of maintenance actions and possibilities to inform road users of road condition changes or hazards on the road ahead. The session takes a specific look at the challenge posed by the Arctic climate to automated driving performance and showcases potential solutions to ensuring road traffic safety in winter time through trials, road design and C-ITS deployment.

**Organiser**
Alina Koskela, Finnish Transport Agency – FTA, Finland

**Moderator**
Ilkka Kotilainen, Finnish Transport Agency – FTA, Finland

**Speakers**
- Torgeir Vaa, Norwegian Public Roads Administration – NRPA, Norway
- Alina Koskela, Finnish Transport Agency – FTA, Finland
- Erik Israelsson, Volvo Cars, Sweden
- Mika Rytkönen, HERE, Germany
- Timo Suvaara, Finnish Meteorological Institute, Finland
- Representative from Canada (TBC)
Connected and Automated Driving (CAD) is high on the agenda of the EU and national governments. There is increasing awareness amongst decision makers that action from public authorities is needed to create the right conditions for safe deployment of CAD. Several national and regional plans have been launched in Europe and at international level.

A large number of European Member States and other countries around the world are running or planning to soon undertake large scale testing of CAD functions on public roads.

This session will provide an overview of current policy measures adopted by European Member States including available funding programmes and support to large-scale testing and facilities. It will also include an overview of the main issues to be addressed at international level and also of the initiatives to establish a dialogue with main international actors (US DoT, MLIT) and other regions (e.g. China, Australia, others).

The main objective of the session is to support mutual understanding of current initiatives, to discuss alignment between national, EU and international initiatives and to identify possible areas of cooperation.

Organiser
Davide Brizzolara, ERTICO – ITS Europe

Moderator
Maxime Flamant, ERTICO – ITS Europe

Speakers
Satu Innamaa, VTT – Technical Research Centre of Finland Ltd, Finland
Scott Smith, US Department of Transportation, United States
Jane Lappin, Toyota, United States
Shinji Isubo, Ministry of Land, Infrastructure, Transport and Tourism – MLIT, Japan
Representative from the European Commission (TBC)

In November 2016 the European Commission published “A European Strategy on Cooperative Intelligent Transport Systems, a milestone towards cooperative, connected and automated mobility” following a request of the European transport ministers written down in the Declaration of Amsterdam. In parallel the European industry stated its intention to start full scale deployment of C-ITS enabled vehicles in 2019. In December 2016 the C-Roads Platform was officially launched to link C-ITS deployment activities across Europe. Member States agree to work together to achieve deployments that enable interoperable and seamless cross-border C-ITS services for European travellers.

This session will bring together key stakeholders from the European Commission, Industry as well as Member States to discuss the feasibility of having first C-ITS services available for European travellers in 2019.

Organiser
Martin Böhm, AustriaTech – Federal Agency for Technological Measures Ltd., Austria

Moderator
Martin Böhm, AustriaTech – Federal Agency for Technological Measures Ltd., Austria

Speakers
Claire Depré, European Commission, DG MOVE
Karl-Oskar Proskawetz, ITS Automotive Nord, Germany
Jan Willem Tierolf, Ministry of Infrastructure and the Environment – Rijkswaterstaat, The Netherlands
Manfred Harrer, ASFINAG Maut Service GmbH, Austria
Joost Vantomme, ACEA, Belgium
Eric Ollinger, Ministry of Ecology, Sustainable Development and Energy, France (TBC)

This session will present the work of the Harmonization Task Group that analysed the benefit of harmonization to end-to-end security policies to support cross-border Cooperative-ITS Services.

Organiser
Suzanne Sloan, US Department of Transportation, United States

Moderator
Wolfgang Hoefs, European Commission, DG CONNECT

Speakers
Suzanne Sloan, US Department of Transportation, United States
Gianmarco Baldini, European Commission’s Joint Research Centre, Italy
Philip Lloyd, Transport Certification Australia, Australia
William Whyte, Security Innovation, United States
**SIS06 – Evolution of ITS Skills in relation to the European New Skills Agenda**

**TOPIC: 7. Freestyle – Your new idea**  
14:00 – 15:30 (Bruxelles)

The recent new European Skills Agenda launched in 2016 is in the list of major initiatives in the EU Commission Work Programme. This SIS aims to provide the opportunity to researchers, industry and practitioners to present and discuss the future and the evolution of the ITS skills through examples of initiatives and best practices that may be implemented in the near future. With fast evolving and growing ITS markets, connected and autonomous vehicles, big data and simulation in several cases the lack of expertise and skills in the job market will potentially determine gaps and mismatches between supply and demand with serious consequences. This SIS is structured in a panel types format, aiming to stimulate discussion and support a shared commitment and works towards the definition of a common vision about the strategic importance of skills for sustaining jobs, growth and competitiveness in the ITS sector.

**Organiser**  
Fabio Galatioto, Transport Systems Catapult, United Kingdom

**Moderator**  
Fabio Galatioto, Transport Systems Catapult, United Kingdom

**Speakers**  
Monica Giannini, IRU Projects, Belgium  
Florin Nemtanu, Politehnica University of Bucharest, Romania  
Yolande Herbath, Transport Systems Catapult, United Kingdom  
Andrew Payne, Naviga Consulting Limited, United Kingdom  
Davide Lo Presti, Nottingham University, United Kingdom

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**SIS46 – Truck platooning: next steps?**

**TOPIC: 4. Connected and automated transport**  
09:00 – 10:30 (Berlin)

The truck platooning is progressing since many years and addresses many major challenges of the long distance road freight transport: emissions/decarbonisation, logistics chain improvement, road safety and infrastructure capacity. The emerging technologies of cooperative and automated vehicles are used. However, some pending issues remain under investigation: user acceptance, impact on traffic and infrastructure, operation and business models. The full implementation requires actions of all the stakeholders, technologies providers, OEMs, roads operators, designers and construction companies, as well as regulators and public authorities. 3 or 4 keynote speakers will briefly introduce the main lessons learned from case studies and planned experiences in the EU member states and the US. A debate between panelists and the audience will deal with the next challenges of truck platooning, the implementation issues, the benefits assessment, and the combination of different approaches of connected vehicles.

**Organiser**  
Odile Arbeit de Chalendar, Ifsttar, Belgium

**Moderator**  
Bernard Jacob, Ifsttar, France

**Speakers**  
Tom Voege, OECD, France  
Juan José Arriola, Ministry of Interior, Spain  
Bastiaan Krosse, TNO, The Netherlands  
Bernard Jacob, Ifsttar, France  
Steve Phillips, CEDR, Belgium  
Jack Martin, ACEA, Belgium  
Juan Loes Aart, Ministry of Infrastructure and the Environment – Rijkswaterstaat, The Netherlands

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**SIS07 – Electric and automated transport**

**TOPIC: 4. Connected and automated transport**  
14:00 – 15:30 (Boston)

The automotive industry is witnessing some profound changes. Automation, ITS and electrification each bring their own unique approach on how the automotive landscape will look like in the next coming years. While in the past vehicle automation, (C)-ITS and electrification have developed in relative isolation – combined they can significantly contribute to bring sustainable mobility to the next level. Starting with the end in mind: where do we envisage ourselves in the next 20 years? And coming slowly back in time: where will be stand in the next 10? And what about the next 5 years?

**Organiser**  
Alain Van Gaever, European Commission, DG MOVE

**Moderator**  
Alain Van Gaever, European Commission, DG MOVE

**Speakers**  
Joseph Beretta, AVERE, France  
Michał Sierszyński, Solaris, Poland  
Abayomi Otubushi, BMW, Germany  
Angelo Meuleman, TaxiStop, Belgium
SIS08 – C-ITS deployment: the French know-how

TOPIC: 4. Connected and automated transport 14:00 – 15:30 (ITS Forum)

This session will present the French know-how in the field of C-ITS deployment developed in projects SCOOP@F, C-Roads France and InterCor. What is very specific in the French approach is to have road operators and car manufacturers working together in close cooperation in order to develop a fully integrated system taking the whole information chain into account. The session will show concrete achievements directly replicable by any C-ITS deployment initiative in Europe.

Organiser
Eric Ollinger, Ministry of Ecology, Sustainable Development and Energy, France

Moderator
Eric Ollinger, Ministry of Ecology, Sustainable Development and Energy, France

Speakers
Marie-Christine Esposito, Ministry of Ecology, Sustainable Development and Energy, France
Christine Tissot, Renault, France
Guillaume Lavenir, DIR Ouest, France
Delphine Duperray, PSA Groupe, France
Guilhem Autret, Cerema, France
Hacène Fouchal, URCA, France
Houda Labiod, Institut Mines-Télécom, France

SIS09 – The MaaS Business Case: experiences, challenges & realisation

TOPIC: 1. Mobility services – from transport to mobility 11:00 – 12:30 (Varsovie)

Throughout Europe the recent past has brought a number of promising projects in the field of MaaS, e.g. services or applications like Whim (Helsinki); Ubigo (Gothenburg), Green Class (Switzerland) or Wien Mobil Lab (Vienna). Although this topic is high on the agenda, a genuine basis on how to calculate a successful business case is still lacking. This session wants to distil the most decisive challenges from gained experiences through already realized projects, field trials and business cases. The most important stakeholders such as public transport operators, governmental authorities, industry and the academia are going to draw an updated picture of their current activities, pointing out the most pressing questions to be overcome in the next future. Next to the technical and organizational aspects of a future MaaS Business Case, relevant findings on mobility behaviour and behavioural change are to be considered in this discussion.

Organiser
Susanna Hauptmann, Kapsch TrafficCom AG, Austria

Moderator
Ralf Baron, Arthur D. Little, Germany

Speakers
Jana Sochor, Chalmers University of Technology, Sweden
Michael Kieslinger, Fluidtime, Austria
Claus Unterkircher, Uber, Austria
Gerhard Wennerström, Samtrafiken, Sweden

SIS10 – Ports of the future in the mega-vessel era

TOPIC: 2. Next generation goods delivery 11:00 – 12:30 (Luxembourg)

Ports are essential for the European economy; 74% of goods exported or imported to the EU are transported via its seaports. At the same time, the challenges they are facing are only getting greater: Volumes of cargo are increasingly higher—a 57% rise by 2030—while they are also arriving in a shrinking number of vessels: the next generation of Post-Panamax vessels have a capacity of more than 18k containers. This session will investigate how enabling cutting-edge technologies such as C-ITS, IoT and 5G may assist modern ports to handle upcoming and future capacity, traffic, efficiency and environmental challenges. Main focus will be on the port links with the hinterland and multimodal traffic.

Organiser
Angelos Amditis, Institute of Communication and Computer Systems – ICCS, Greece

Moderator
Angelos Amditis, Institute of Communication and Computer Systems – ICCS, Greece

Speakers
Sascha Westermann, Hamburger Hochbahn AG, Germany
Salvador Furió, Fundación Valenciaport, Spain
Paolo Pagano, Consorzio Nazionale Interuniversitario per le Telecomunicazioni – CNIT, Italy
SIS11 – Deployment of autonomous shuttles on the road: mobility of the future

Autonomous mobility is a reality. Today, autonomous vehicles are being commercialized and piloted on public roads based on their level of automation (e.g. 4, 5). These vehicles, without human inputs, can autonomously drive safely, locate themselves and adhere to traffic rules. However, they alone cannot be used as a mobility service, since they cannot adapt to networks disruptions. Thus, optimization must take place at the fleet level in order to create a coordinated and efficient mobility service and to determine the optimal “solution” for the whole system, i.e. dispatching vehicles to match the demand. Provisioning a complete autonomous mobility system involves the interaction of all players of the autonomous mobility ecosystem: fleet automation platforms, data suppliers (e.g. High Definition 3D map, road network, traffic information), Mobility providers, autonomous vehicles manufacturers and, end users.

Organiser
Gonzalo Alcaraz, BestMile, Switzerland
Moderator
Gonzalo Alcaraz, BestMile, Switzerland
Speakers
Raphael Gindrat, BestMile, Switzerland
Wolfgang Bern, Local Motors, Inc., Germany
Frank Hunsicker, Deutsche Bahn / InnoZ, Germany
Christophe Sapet, NAVYA, France

SIS12 – Knowledge management in action – preserving what we know and what we’ll learn

Today’s transportation leadership is faced with squeezing the most out of limited resources, fixing aging infrastructure, deploying transformational technologies for Smart Cities and ITS, and dealing with a massive brain drain caused by large employee turnover. Some transportation leaders are finding that these issues and more can be helped by deploying knowledge management programs. This session will look at how to develop a knowledge management program, challenges and opportunities, and lessons learned from deployments.

Organiser
C. Douglass Couto, Consultancy, United States
Moderator
Thomas Kern, Cavita, United States
Speakers
C. Douglass Couto, Consultancy, United States
Martin Böhm, AustriaTech – Federal Agency for Technological Measures Ltd., Austria
John Miles, Ankerbold, United Kingdom

SIS13 – Post 2019 – the path towards Day 2 C-ITS Services

Connected vehicles are projected to land on our roads by 2019 which will be a key moment and milestone for Intelligent Transport Systems in Europe. The list of Day 1 services that were defined in the European Commission’s C-ITS Platform will be the basis of the first deployment of C-ITS but do we already have an idea of what Day 2 C-ITS services will look like? This session will explore how public and private stakeholders from both urban and inter-urban networks view the evolution of C-ITS services and what Day 2 should and should not include.

Organiser
Geert Van-der-Linden, European Commission, DG MOVE
Moderator
Geert Van-der-Linden, European Commission, DG MOVE
Speakers
Eric Ollinger, Ministry of Ecology, Sustainable Development and Energy, France
Richard Lax, Kapsch TrafficCom AG, Austria
Bahar Namaki Araghi, City of Copenhagen, The Technical and Environmental Administration, Traffic Department, Denmark
Additional speaker (TBC)
SIS14 – ERTRAC/CARTRE Roadmap: coordination of Automated Driving R&D in Europe

In order to overcome fragmentation, Europe needs one reference document and one clear roadmap for the development of Automated Driving. The ERTRAC Roadmap, developed with the support of the European project CARTRE, provides a status of the current initiatives in Europe, by the European Union and by national authorities. Its overall objective is to identify the challenges for implementation of higher levels of automation in Road Transport, and to promote cross-industry collaboration and international coordination. The Roadmap provides milestones of Research and Development efforts towards 2025 and 2030. The goal is to support the market deployment of automated driving applications for the different vehicles and environments: for passenger cars, for commercial vehicles (trucks and buses), and for urban environment systems. Besides this mapping of medium-term R&D efforts, the document provides short-term recommendations for the content of European projects by the Horizon2020 programme, for the funding years 2018-2020.

Organiser
Davide Brizzolara, ERTICO – ITS Europe

Moderator
Bastiaan Krosse, TNO, The Netherlands

Speakers
Armin Graeter, BMW, Germany
Risto Kulmala, Finnish Transport Agency – FTA, Finland
Eckard Steiger, Bosch, Germany
Mats Rosenquist, Volvo, Belgium

SIS15 – IOT and next generation networks enabling highly and fully automated driving

IoT promises a widely distributed network of cheap, efficient and pervasive sensors. Automated Driving demands a rich sensing capability to maximally inform the automated decision making process; thus, exploiting IoT technologies for Autonomous Driving applications seems a very opportune area of investigation. There are, however, significant challenges – AD demands highly reliable solutions, IoT presents a much more ad hoc sea of data. AD solutions must be secure, yet IoT has already demonstrated significant security weakness. In this session we will investigate the promise that IoT offers, while trying to understand the ways in which its performance must be improved, or its weaknesses mitigated.

Organiser
Dave Marple, Technolution, The Netherlands

Moderator
François Fischer, ERTICO – ITS Europe

Speakers
Stella Nikolaou, Centre for Research & Technology Hellas – CERTH, Greece
Ralf Willenbrock, T-Systems, Germany
Benoit Baurens, AKKA, France
Miodrag Djurica, TNO, The Netherlands
Dave Marple, Technolution, The Netherlands

SIS16 – Exploiting computer vision and GNSS applications for ADAS and digital cartography

Fusing video data with data from other sources will significantly increase the environment perception for automated driving vehicles. However, performance of computer vision or video analysis systems is inherently restricted by the quality of the available training data. Achieving improvements in any application domain – e.g., ADAS, intelligent transport systems, advanced manufacturing, digital cartography – requires the availability of labelled realistic video datasets of sufficient size. Similarly, lane-level positioning and map matching are big challenges for navigation systems and for feeding data in the sensor fusion components. Highly automated driving vehicle will be rapidly deployed, requiring lane level positioning information and vehicle control. The session will address the challenge of quality of data, coming from computer vision, positioning and other sensors, which will contribute through sensor fusion to deliver a reliable and precise perception of the driving environment, being critical to enable highly automated driving.

Organiser
Oihana Otaegui, Vicom, Spain

Moderator
François Fischer, ERTICO – ITS Europe

Speakers
Suzanne Little, DCU, Ireland
Finbarr Murphy, University of Limerick, Ireland
Gorka Velez, Vicom, Spain
SIS17 – CEF: supporting real ITS implementation

TOPIC: 4. Connected and automated transport 14:00 – 15:30 (Boston)

INEA is the Executive Agency in charge of the Connecting Europe Facility (CEF) programme. This special interest session will provide an insight on how INEA works, what CEF is and how it supports the deployment of ITS in the EU. Practical examples and work experience will be presented with beneficiaries of CEF funds and debated along with representatives of the European Commission.

Organiser
Eva Boethius, European Commission, INEA

Moderator
Pierpaolo Tona, European Commission, INEA

Speakers
Stephanie Kleine, Landes Betrieb Mobilität Rheinland-Pfalz, Germany
Martin Böhm, AustriaTech – Federal Agency for Technological Measures Ltd., Austria
Andy Rooke, ERTICO – ITS Europe
Isabelle Vandooorne, European Commission, DG MOVE

SIS18 – Dragon’s Den for MaaS

TOPIC: 7. Freestyle – Your new idea 14:00 – 15:30 (ITS Forum)

Mobility as a Service has taken the world by storm, at least on a concept level. Since 2014, MaaS has been quoted as a future megatrend changing the mobility landscape for the better. Is it hype or can MaaS live up to its promises? The first MaaS operators have only begun their operations. They show a lot of promise but are competing against slowly changing consumer habits and legacy institutions. If you’ve ever had a suspicion that MaaS might be too good to be true, this session is for you. If you’ve had that nagging feeling that no-one’s asked the really tricky questions yet, you need to attend. This session will bring together the leading MaaS experts to answer your questions. This is the event where we implore you to play devil’s advocate. We will put MaaS concept and business models in the pressure chamber.

Organiser
Krista Huhtala-Jenks, Ministry of Transport and Communications, Finland

Moderator
Catherine Kargas, Marcon, Canada

Speakers
Richard Harris, Real ITS Global, United Kingdom
Sampo Hietanen, MaaS Global, Finland
Krista Huhtala-Jenks, Ministry of Transport and Communications, Finland
Susan Zielinski, University of Michigan, United States
Søren Sørensen, SFMCON Smart Ticketing Consulting, Denmark

SIS19 – Disruptive business models: blurring the lines between traditional mobility service providers

TOPIC: 1. Mobility services – from transport to mobility 16:00 – 17:30 (Varsovie)

Major advances in technology – the internet of things, big data and the consumerisation of technology – are blurring the lines between vehicles, infrastructure and mobility services for end users. This session brings together speakers who work at varying stages of mobility services to discuss different challenges and approaches from technological, economic and political angles. Difficult questions around disruptive business models will be debated, such as how well can/does MaaS scale, particularly in the complexity of cities? And how are stakeholders across automotive, infrastructure and mobility services planning to overcome their challenges and work toward a technology-led future that delivers for consumers?

Organiser
Pamela Oldfield, INRIX, United Kingdom

Moderator
Andy Graham, White Willow Consulting, United Kingdom

Speakers
Mads Gaml, City of Copenhagen, The Technical and Environmental Administration, Traffic Department, Denmark
Andrea Petti, Ericsson, United Arab Emirates
Scott Sedlik, INRIX, United States
Serge van Dam, Ministry of Infrastructure and the Environment – Rijkwaterstaat, The Netherlands
Ian Smith, Road and Transport Authority, United Arab Emirates
SIS20 – Leveraging the digital nature of ITS to deliver its environmental benefits

TOPIC: 6. ITS and the environment 16:00 – 17:30 (Madrid 1)

Throughout the world, an ambition has emerged to improve air quality by reducing congestion, spurred by the effect on life expectancy, quality of life, and health care costs. ITS are a crucial tool to realize this ambition, today. They incentivise the use of clean transportation, reduce pollution emitted by other transport modes, and help changing mobility patterns. Authorities however sometimes struggle to make investments in ITS improving air quality, especially in times of budget constraint. Opportunities to make our cities smoother and our air cleaner pass by because of uncertainty on benefits, the abundance of scenarios of action, and a fear of side effects. This session will expose how ITS can reduce congestion and improve air quality, and how its digital nature can help building consensus and choosing the best path reconciling environmental concerns and mobility needs. A focus will be put on actual ITS realizations by inviting practitioners.

Organiser
Arno Amabile, ENGIE, France
Moderator
Jean-Charles Pandazis, ERTICO – ITS Europe
Speakers
Laurent Bouillot, SIRADEL, France
Drew Hill, Transport Scotland, United Kingdom
Ger Baron, City of Amsterdam, The Netherlands
Steffen Rasmussen, City of Copenhagen, The Technical and Environmental Administration, Centre for Traffic and City in Use, Denmark

SIS21 – Now and next: going digital in freight transport

TOPIC: 2. Next generation goods delivery 16:00 – 17:30 (Luxembourg)

The session reviews and discusses the progress to date and future necessary steps towards the full digitalization of freight transport documents. It reports the latest advances in the sector on several levels (from policy to technology) and from multi-nature stakeholders, assesses the success of ongoing efforts and critically sets the future framework within which concrete actions should be taken towards realizing the goal and vision of fully digitalized freight transport operations.

Organiser
Iraklis Stamos, IRU Projects, Belgium
Moderator
Zeljko Jeftic, IRU, Switzerland
Speakers
Sean Sayer, International Transport Workers’ Federation – ITF, United Kingdom
Hans Lip, TransFollow, The Netherlands
Nik Delmeire, European Shippers’ Council – ESC, Belgium

SIS22 – 5G Automotive Alliance (5GAA): on the road towards LTE-V2X

TOPIC: 4. Connected and automated transport 16:00 – 17:30 (Londres 2)

The mobile network as enabler for direct Vehicle-to-Vehicle (V2V) communication – fact or fiction? With the advent of LTE V2X standardization, this may become a reality. Join this session and learn more about the status and roadmap plans of LTE V2X and its relevance for current and future challenges in urban and inter-urban mobility. Representatives from Ericsson, Qualcomm, Vodafone and the Dutch Ministry of Infrastructure and the Environment share their view on the matter. The session is moderated by a representative from Qualcomm who is the chairman of the 5G Automotive Alliance (5GAA).

Organiser
Sander Maas, Ericsson, The Netherlands
Moderator
Dino Flore, Qualcomm, Spain
Speakers
Stefano Sorrentino, Ericsson, Sweden
Caspar de Jonge, Ministry of Infrastructure and the Environment – Rijkwaterstaat, The Netherlands
Ralf Weber, Qualcomm, Germany
SIS23 – Standardisation and certification for connected and automated vehicles

TOPIC: 4. Connected and automated transport 16:00 – 17:30 (Amsterdam)

This session will present the challenges for standardisation and certification of automated road vehicles and it will foster the debate on views and recommendations for handling of automated road vehicles. It will focus both on operational and infrastructural constraint and requirements. It will also consider system versus device-level testing/certification. Benefit of a global testing framework for vehicle and system suppliers as well as system operators and road/transport/urban authorities will be illustrated. The session will also debate the topic of the standards needed for the certification in order to enable the deployment of automated vehicles.

Organiser
Davide Brizzolara, ERTICO – ITS Europe

Moderator
Álvaro Arrúe, Applus IDIADA, Spain

Speakers
François Fischer, ERTICO – ITS Europe
Marco Pillados, Applus IDIADA, Spain
Arjan van Vliet, The Netherlands Vehicle Authority – RDW, The Netherlands
Carl Andersen, US Department of Transportation, United States
Bastiaan Krosse, TNO, The Netherlands

SIS24 – Building the multimodal ‘data layer’ for travel information services

TOPIC: 1. Mobility services – from transport to mobility 16:00 – 17:30 (Boston)

Data exchange protocol standards are a key enabler of seamless data exchange across different transport and support the provision of comprehensive travel information services. In the transport sector a number of European standards and technical specifications exist namely NeTEx, DATEX, TAP-TSI EDIFACT and IATA. However, all of the aforementioned standards are modal specific. Member States are in the process of setting of National Access Points as a result of the various delegated acts of the ITS Directive. Increasingly they will combine different types of data across different transport modes. To what extent can the different standards co-exist? Could efforts in the standardisation sphere focus on integrating the different standards together to one format? This technical session will explore all of the aforementioned questions from a panel of experts working in the domain.

Organiser
Pedro Barradas, European Commission, DG MOVE

Moderator
Pedro Barradas, European Commission, DG MOVE

Speakers
Christophe Duquesne, NeTEx, France
Marjolein Masclee, Ministry of Infrastructure and the Environment – Rijkswaterstaat, The Netherlands
Henry Coles, IATA, Switzerland
Stefan Jugelt, European Railway Agency, France

SIS25 – MaaS as a platform for further applications

TOPIC: 1. Mobility services – from transport to mobility 09:00 – 10:30 (Varsovie)

After a few years of hype, discussion and great promises, we are finally seeing actual MaaS products and services. MaaS is not the end target itself, but rather a means to achieve something. In a similar manner as ITS it can and should be considered as a tool. In this session we 1) probe into the possibilities MaaS itself enables for e.g. mobility management, incentives, innovative procurement and traffic data. And 2) we will find out what are the critical elements – such as open traffic data – needed as input or a framework for MaaS to successfully become that platform for those further applications. We will hear public sector, research and MaaS developers alike sharing their perspective and visions for future MaaS-enabled applications.

Organiser
Sami Sahala, Forum Virium Helsinki, City of Helsinki, Finland

Moderator
Laura Eiro, Ministry of Transport and Communications, Finland

Speakers
Filippo Logi, Siemens, Germany
Anna Mayerthaler, New Urban Mobility Vienna, Austria
Dirk van Amelfort, RISE Viktoria, Sweden
Gerhard Wennerström, Samtrafiken, Sweden
Jari Paasikivi, City of Turku, Finland
SIS26 – Delivering evidence on urban C-ITS benefits to accelerate full scale deployment

This session is dedicated to C-ITS services relevant to urban environment with a special focus on how to bridge the gap between local pilots and full scale deployment. Speakers will share knowledge from European most advanced urban C-ITS service implementation and operations from the point of view of local authorities but also the industry in order to stimulate transfer of results and to foster replication in other European cities. This session will also report on the latest developments made by the C-ITS Platform, especially from Urban and Enhanced Traffic Management working groups that are the most relevant to actively support European-wide urban C-ITS deployment.

Organiser
Vincent Blervaque, BLERVAQUE Sprl, Belgium
Moderator
Vincent Blervaque, BLERVAQUE Sprl, Belgium
Speakers
Stephanie Leonard, European Commission, DG MOVE
Pedro Barradas, European Commission, DG MOVE
Eric Monceyron, Bordeaux Métropole, France
Gert Blom, Gemeente Helmond, The Netherlands
Nuno Rodrigues, Dynniq, The Netherlands
Jean-Philippe Méchin, Cerema Sud-Ouest, France
Bahar Namaki Araghi, City of Copenhagen, The Technical and Environmental Administration, Traffic Department, Denmark

SIS27 – Connectivity and automation: latest development and future challenges

Automation and connectivity in road transport is one of the top ranked research topics worldwide. The role of ICT and the use of advanced technologies is increasingly important and it is anticipated to play a key role in the near future to boost the deployment of connected and automated road transport. The role of ICT and advanced architectures will be presented in this session. Additional topics such as hybrid communications taking into account ETSI ITS G5, cellular and ad hoc networks, mobile edge computing, fog and cloud computing, cyber security, data privacy and localisation will be also tackled during the presentations and the related discussion. The goal of this session is to gather key players from industry and academia in the field of connected automated road transport and present the current status and latest developments while at the same time highlight relevant challenges and the outlook of those technologies.

Organiser
Davide Brizzolara, ERTICO – ITS Europe
Moderator
Panagiotis Lytrivis, Institute of Communication and Computer Systems – ICCS, Greece
Speakers
Volker Fricke, IBM, Germany
Birger Haetty, Nokia, Germany
Cecile Abdo, Airbus, France
Luisa Andreone, Centro Ricerche FIAT, Italy
Ulrich Fastenrath, BMW, Germany
Luc Janssene, ERTICO – ITS Europe

SIS28 – 5G in ITS – Powered by satellite communications

Cross border transportation poses an interesting challenge for ITS connectivity. With 5G and new satellite constellations (OneWeb, Iridium Next, etc.), along with the convergence of terrestrial and satellite technology, the provisioning of seamless connectivity on the move – in urban, rural and wilderness – will become a reality and pave the way for richer ITS services. 5G has the ambition to enable harmonious integration of heterogeneous networks whether terrestrial and satellite. It is forecasted that by 2025 around 27.2% of automotive use cases will use satellite connectivity. Through its global reach, satellite communication plays a key role in creating a seamless and affordable connectivity fabric for both infrastructure and vehicles. Vehicular connectivity can be achieved through satellite using devices no larger than a smartphone. Such connectivity is sufficient for the deployment of essential ITS services such as emergency calls, fleet management, remote diagnostics and road tolling.

Organiser
Ashweeni Beeharee, Satellite Applications Catapult, United Kingdom
Moderator
Ashweeni Beeharee, Satellite Applications Catapult, United Kingdom
Speakers
Joel Schroeder, Inmarsat, United Kingdom
Dan Mercer, Iridium, United States
Andrew Faiola, Intelsat, United Kingdom
SIS29 – Shared, connected and automated mobility for all in urban areas

**TOPIC:** 4. Connected and automated transport  
**09:00 – 10:30 (Boston)**

Mobility in urban and suburban areas faces significant challenges with respect to accessibility, safety, security, environment, service quality of public transport and financing. Shared and automated mobility services have the potential to address these challenges and to offer concrete solutions which are not technically or economically feasible with conventional public transport systems. This session will report on expectations from local authorities to meet policy goals in cities, strategies developed by transport authorities to facilitate integration of automated vehicles and associated shared mobility services in existing public transport systems, and lessons learnt from trials and commercial operations by public transport operators and mobility service providers.

**Organiser**  
Patrick Mercier-Handisyde, European Commission, DG Research and Innovation

**Moderator**  
Patrick Mercier-Handisyde, European Commission, DG Research and Innovation

**Speakers**  
Umberto Guida, UITP, Belgium  
Luc Marbach, VEDECOM, France  
Siegfried Rupprecht, RUPPRECHT CONSULT – Forschung & Beratung GmbH, Germany  
Jean-François Argence, LOHR Industrie/CRISTAL, France  
Rafael Cuesta, Transport for Greater Manchester, United Kingdom

SIS30 – ITS4Climate

**TOPIC:** 6. ITS and the environment  
**11:00 – 12:30 (Madrid 1)**

This session will present ITS4Climate that is an international initiative aiming to show the benefits on the environment by the implementation of ITS projects.

**Organiser**  
Simone Stevanin, TOPOS Aquitaine, France

**Moderator**  
Jean Bergounioux, ATEC – ITS France, France

**Speakers**  
Evangelos Mitsakis, CERTH-HIT, Greece  
Ørjan Tveit, Norwegian Public Roads Administration – NPRA, Norway  
Gino Franco, SWARCO, Austria  
Florence Ghiron, TOPOS Aquitaine, France  
Margaret Bell, Newcastle University, United Kingdom  
Daniel Collard, Fayat, France  
Jean-Bernard Kovarik, Ifsttar, France  
Driss Samri, Cerema, France

SIS31 – 4GDAB+as hybrid communication platform in ITS

**TOPIC:** 3. Transport networks evolution  
**11:00 – 12:30 (Luxembourg)**

Distribution of safety related data, including traffic data and all other ITS related data to road vehicles will result in the exchange of huge amounts of data in 2020. It has been estimated that in 2020 this will amount to 7-10Exabytes in transmitted data in Germany alone. Congestion in Mobile network is likely to be the result, leading to dramatic increases in required private investments to deal with the (peak) loads in mobile networking. WiFi-P as an alternative to V2X communications will also require large investments, both road side and in car. An alternative is offered by the emerging digital broadcasting services offered by DAB+ in combination with the point to point mobile internet services offered by 4GLTE.

**Organiser**  
Menno Lijndijk, ARS Traffic & Transport Technology, The Netherlands

**Moderator**  
Menno Lijndijk, ARS Traffic & Transport Technology, The Netherlands

**Speakers**  
Ronald Haanstra, Mobiele TV Nederland B.V. – MTVNL, The Netherlands  
Thomas Kusche, TSANOR, Germany  
Menno Lijndijk, ARS Traffic & Transport Technology, The Netherlands
SIS32 – (C-)ITS for public authorities: challenges and barriers to deployment – from West to East

Finding best solutions for deploying C-ITS services is the focus of several European co-funded initiatives. The European Commission has created the C-ITS platform bringing together private and public stakeholders. The latter are increasingly invited to know further and be pushed in the use of C-ITS solutions. However, not always have the necessary resources and differences are remarkable. For instance, Western European countries are forerunners in C-ITS deployment while in Eastern Europe ITS deployment issues are diverse and C-ITS is less relevant. Thus, it is of primary importance to raise awareness through initiatives that focus on education such as the EU project CAPITAL while on parallel make a detailed comparison of stakeholder needs from West to East, barriers and challenges in (C-)ITS deployment and look at existing initiatives to overcome these. Many public authorities are involved in CEF projects such as CROCODILE 2 focussing on ITS deployment on Eastern Europe’s corridors for overcoming challenges.

Organiser
Manuela Flachi, ERTICO – ITS Europe
Moderator
Stephanie Leonard, European Commission, DG MOVE
Speakers
Martin Böhm, AustriaTech – Federal Agency for Technological Measures Ltd., Austria
Gert Blom, Gemeente Helmond, The Netherlands
Graham Hanson, Department for Transport – DIT, United Kingdom
Martin Pichl, Ministry of Transport, Czech Republic (TBC)
Sorin Dumitrescu, ELECTRONIC SOLUTIONS SRL, Romania (TBC)

SIS33 – Mobility as a service – the perspective of rail and public transport

Mobility as a Service (MaaS), if implemented appropriately, can help transport work as a system. Providing travellers with tailor-made mobility solutions based on their individual needs, it can be an effective tool to encourage modal shift. To work to the best effect, all relevant stakeholders must be involved in Mobility as a Service – but what is the view from rail and public transport on this latest initiative?

Organiser
Stephanie Leonard, European Commission, DG MOVE
Moderator
Stephanie Leonard, European Commission, DG MOVE
Speakers
Sylvain Haon, UITP, Belgium
Rahul Kumar, Transdev, United States
Begoña Delicado, SNCF, France
Ruetger Fenkes, Deutsche Bahn, Germany

SIS34 – Potential of ITS services and predictive truck technology to reduce CO2 emissions

This session will present an overview of ITS measures with the greatest potential for reducing CO2 emissions from Heavy Goods Vehicles. It will present key results from recent studies and demonstrations demonstrating the impact of ITS services in freight transport and logistics, as well as recent innovative activities using ITS data for Predictive Powertrain control in intelligent trucks leading to optimal fuel consumption. It will include a panel discussion on the way forward in terms of bringing together ITS measures and innovative truck technology to improve fuel efficiency, to reduce emissions and to allow the freight transport industry to meet its targets.

Organiser
Jean-Charles Pandazis, ERTICO – ITS Europe
Moderator
Jean-Charles Pandazis, ERTICO – ITS Europe
Speakers
Andrew Winder, ERTICO – ITS Europe
Evangelos Mitsakis, CERTH-HIT, Greece
Iraklis Stamos, IRU Projects, Belgium
Kerem Koprubasi, Ford Otosan, Turkey
Alois Danninger, AVL/AT, Austria
SIS35 – Big Data and its positive impacts on transport planning and operations decision-making

TOPIC: 3. Transport networks evolution  14:00 – 15:30 (Luxembourg)

Crowd sourced data such as Floating Car Data, Internet of Things sensors and cloud-based processing and storage solutions are rapidly changing how transport professionals monitor, measure, operate and improve their transport network. This session will include experts from across Europe and North America. They will provide case studies of ongoing projects and deployments where Big Data is providing visibility and improvements to the Transport Network more quickly and cost-effectively than ever before. Topics to be discussed range from European-wide freight and vehicle movement modelling leveraging FCD data for origin-destination, and path routing, to arterial corridor performance monitoring and improvement.

Organiser
Pamela Oldfield, INRIX, United Kingdom

Moderator
Rick Schuman, INRIX, United Kingdom

Speakers
Darcy M. Bullock, Purdue, United States
Olaf Vroom, National Data Warehouse for Traffic Information – NOW, The Netherlands
Graham Hanson, Department for Transport – DfT, United Kingdom
Angelo Martino, TRT Trasporti e Territorio srl, Belgium

SIS36 – C-ITS deployment: the story unfolds

TOPIC: 4. Connected and automated transport  14:00 – 15:30 (Londres 2)

The story of Cooperative ITS in Europe is unfolding. Based on the strategy on Cooperative Intelligent Transport Systems, the European Commission will present the shared vision and roadmap for C-ITS deployment in Europe towards and beyond 2019. The Amsterdam Group facilitates cooperation between infrastructure organisations and automotive industry for corridor-based harmonised deployment of C-ITS services. In doing so, it promotes interoperable deployment and provides an essential strategic cooperation element among implementers which complements the C-ITS Platform and C-Roads. In this session, European Commission and Amsterdam Group will provide their view on the status of overarching open issues which are crucial to ensure interoperability. Representatives from C-ITS deployment initiatives all over Europe (e.g. C-roads, France, Austria, Germany, The Netherlands, Nordic countries) will briefly present the current status of their initiatives, lessons learned from deployment preparation and future plans. The representatives will continue to share experience and knowledge in a subsequent Q&A slot.

Organiser
Maarten Amelink, Arcadis, The Netherlands

Moderator
Torsten Geissler, BASt, Germany

Speakers
Martin Böhm, AustriaTech – Federal Agency for Technological Measures Ltd., Austria
Maria Alfayate, European Commission, DG MOVE
Risto Kulmala, Finnish Transport Agency – FTA, Finland
Sandro Berndt, BASt, Germany
Vincent Blervaque, BLERVAQUE Sprl, Belgium

SIS37 – Digital infrastructure for automated vehicles

TOPIC: 4. Connected and automated transport  14:00 – 15:30 (Amsterdam)

Digital Infrastructure indicates the static and dynamic digital representation of the physical world with which the automated vehicle will interact to operate. It is essential to support the deployment of highly automated vehicles. The activities related to Digital Infrastructure address several aspects such as for instance standardized representations, content types, guarantee quality, collection and minimum requirements. In this Special Interest Session, the discussion will be focused on implementation aspects and technological issues, including the presentation of several use cases. The activity of the MAVEN project (Managing Automated Vehicles Enhances Network), aiming to provide solutions for managing level-4 automated vehicles (HAV) at (urban) signalised intersections, will be discussed. The discussion in this session will benefit from the contribution of the European Project CARTRE (http://connectedautomateddriving.eu/) Thematic Discussion Groups on Digital Infrastructure and of the Trilateral Automation in Road Transportation WG which fosters the international cooperation, between US, Japan and Europe on this point.

Organiser
Davide Brizzolara, ERTICO – ITS Europe

Moderator
Maxime Flamant, ERTICO – ITS Europe

Speakers
Jaap Vreeswijk, MAP Traffic Management, The Netherlands
Ahmed Nasr, HERE, Belgium
Jun Shibata, Japan Digital Road Map Association – DRM, Japan
Geert Van-der-Linden, European Commission, DG MOVE
SIS38 – Multimodal ‘code of conduct’: a step towards integrated ticketing?

The internet has revolutionised the way journeys are planned and tickets are reserved, increasingly, it has replaced the traditional travel agency as a means to obtain information and book journeys. For the moment, EU policy has concentrated on solving the barriers associated with multimodal travel information. However, there are limitations on ticketing that may need to be addressed. For many destinations, it is still not possible to book an integrated ticket for long-distance journeys between different cities using different transport modes. The connection with and first and/or last part of the journey is also missing. Most stakeholders agree that barriers and limitations in providing integrating ticketing solutions across the EU are increasingly less of a technical issue and are more concerned with organisational, legal and institutional issues. Could the aviation sector’s code of conduct for computerised reservation systems be a model that could be applied in a multimodal context?

Organiser
Isabelle Vandoorne, European Commission, DG MOVE

Moderator
Isabelle Vandoorne, European Commission, DG MOVE

Speakers
Sylvain Haon, UITP, Belgium
Martyn Lewis, Stagecoach, United Kingdom
Henry Coles, IATA, United Kingdom
Begoña Delicado, SNCF, France
Ruetger Fenkes, Deutsche Bahn, Germany
Nick Books, Trainline.com, United Kingdom

SIS40 – Digitalization of transport infrastructure: challenges, risks, opportunities for road infrastructure operators

Digitalization of infrastructure is on the way and is part of the solution to the challenges faced by all countries in guaranteeing the provision of a safe and efficient road network but also to improve mobility services. Challenges are funding and the maintenance of the road assets. Developing innovative predictive maintenance tools (example use of drones, intelligent equipment connected to management centre to assess the pavements…) will be of high priority in order to safeguard the infrastructure assets and avoid them to deteriorate and therefore to prevent important costs to rebuild them if destroyed.

This session will also explore on the challenges related to the digitalization of transport infrastructure to better monitor and manage the traffic flow and ‘digitalized’ their operations but also to enhance customer experiences and provide opportunity to have fruitful discussion with all the stakeholders involved in the process to meet this challenges.

Organiser
Malika Seddi, ASFA, France

Moderator
Kallistratos Dionelis, ASECAP, Belgium

Speakers
Andrea Manfron, AISCAT, Italy
Jorge Angelo, APCAP, Portugal
Bruno De la Fuente, SEOPAN, Spain
Marko Jandrisits, ASPINAG, Austria
Valérie Dagand, VINCI, France
Patrick Vial, SPIE, France

SIS41 – Greening road freight transport by electrification

Decarbonisation of long distance freight transport requires actions of all the stakeholders, technologies providers, OEMs, highways and roads operators, designers and construction companies, as well as regulators and public authorities. After a brief introduction on the main challenges of long distance freight transport decarbonisation and ITS solutions, the developing or implemented technological solutions will be presented, such as ground or overhead electrical supply by the infrastructure, and the vehicle electrification. Case studies and planned experiences will be reported by Swedish and French highway owners and operators. The discussion between the panellists and the audience will address implementation issues, benefits assessment, combination of electrification with other greening approaches such as advanced eco-driving using ITS, routing of connected vehicles, etc., and assess the cost/benefit and economical challenge of implementing electrification.

Organiser
Bernard Jacob, Ifsttar, France

Moderator
Bernard Jacob, Ifsttar, France

Speakers
Patrik Akerman, Siemens AG, Germany
Patrick DUPRAT, Alstom, France
Pierre Lussier, Daimler, France
Jan Nylander, County Council of Gävleborg, Sweden
Philippe Redoulez, ATMB, France
Frédéric Sgarbi, European Commission, DG Research & Innovation
Nils-Gunnar Vagstedt, Scania, Sweden
Tom Voege, OECD, France
SIS42 – Deploying traffic management 2.0

TOPIC: 3. Transport networks evolution 16:00 – 17:30 (Luxembourg)

Traffic management aims to improve traffic flow leading to safer, cleaner and more efficient road traffic. Traditionally, TM is mainly the area of road authorities. However, service providers provide more and more services to road users via in-car/mobile systems. Currently various and unsynchronized messages are provided to road users. A major transition in traffic management is envisaged by the exchange of TM plans and individual route information between traffic centres and service providers and deployment of interactive TM strategies, leading to harmonized messages, optimal use of the network and better individual route advice. This SIS presents the concept of this transition to interactive traffic management and accompanying policy making. AustriaTech will be sharing their view on that. The Dutch Ministry (RWS) and the City of Ghent will present their activities in deploying interactive traffic management. Involved service provider Be-Mobile will give more insight on the position of service providers and their thoughts on the role of data. Finally, MaaS will help bridge the ‘TM 2.0’ concept with that of Mobility as a Service.

Organiser
Tiffany Vlemmings, National Datawarehouse for Traffic Information – NDW, The Netherlands

Moderator
Olaf Vroom, National Datawarehouse for Traffic Information – NDW, The Netherlands

Speakers
Martin Russ, AustriaTech – Federal Agency for Technological Measures Ltd., Austria
Tiffany Vlemmings, National Datawarehouse for Traffic Information – NDW, The Netherlands
Pieter Morlion, City of Ghent, Belgium
Mark Greffhorst, Be-Mobile, Belgium
Richard Harris, Real ITS Global, United Kingdom

SIS43 – A safe CCAD arrival – from test sites to learning environments

TOPIC: 4. Connected and automated transport 16:00 – 17:30 (Londres 2)

Currently test-environments for automated driving are set-up in several countries. As the mobility system shows a lot of complexity, which is even increased by the introduction of CAV, it is very difficult to cover all the different aspects and to answer the open questions in one test environment. It is therefore essential to align the activities in the different test environments and to learn from each other. This special interest session is focused on how test environments can be set-up in an effective way and how links between different test environments can be established. Experts representing different test environments and experts from the field of automated driving will discuss topics like organisational and legal framework for test environments including financing and funding from public institutions, models of operation of test environments, test scenarios and use cases, data exchange and interoperability, impact assessment, and open access to test environments.

Organiser
Martin Dirnwöber, AustriaTech – Federal Agency for Technological Measures Ltd., Austria

Moderator
Martin Russ, AustriaTech – Federal Agency for Technological Measures Ltd., Austria

Speakers
Evangelia Portouli, Institute of Communication and Computer Systems – ICCS, Greece
Frank Köster, German Aerospace Centre – DLR, Germany
Horst Bischof, Institute for Computer Graphics and Vision, Graz University of Technology, Austria
Jan Hellaker, Drive Sweden, Sweden

SIS44 – Challenges on the data chain to serve automated driving

TOPIC: 4. Connected and automated transport 16:00 – 17:30 (Amsterdam)

Many initiatives/groups in Europe and in the world are rapidly developing automated vehicle technologies involving data from different sources (digital map, sensors, traffic information, traffic management information, etc.), but there is a need for coherency and for a careful look at the whole data chain that will enable automated driving. This session will focus on presenting an overview of the different element of this data chain. The challenge of this data chain for automated driving, its consistency and the way forward will be discussed by international experts representing different organisations, in particular ADASIS, SENSORIS, NDS, TM2.0, TISA, TN-ITS.

Organiser
Jean-Charles Pandazis, ERTICO – ITS Europe

Moderator
Jean-Charles Pandazis, ERTICO – ITS Europe

Speakers
Michael Klingsoehr, Bosch SoftTec GmbH, Germany
Prokop Jehlicka, HERE, Germany
Volker Sasse, NavInfo Co.Ltd, China
Matthias Unbehaun, TISA, Belgium
Johanna Tzanidaki, TomTom Group, The Netherlands
Stephen T’Siobbel, TomTom Group, Belgium
SIS45 – The challenges of a future automated transport: how space technologies can decrease costs, increase safety and respond to cyber security threats

TOPIC: 5 Satellite technology applied to mobility 16:00 – 17:30 (Boston)

Current technological capabilities for autonomous vehicles, self-driving cars, and highly automated vehicles are expanding rapidly. For instance, new, more intelligent Advanced Driver Assistance Systems (ADAS) have recently been introduced to the automotive industry; these represent the ultimate step in the path towards the implementation of autonomous vehicles. In spite of these developments, challenges do exist. Manufacturing costs and safety achievable by such automated vehicles is among the most critical aspects for both type approval and future user adoption. Large amounts of data generated by and for transportation must be used innovatively by leveraging on recent developments in big data analytics and optimisation. Cyber security is crucial; secure data encryption and communication must ensure adequate protection against manipulation and misuse of data and processes. This session will address how terrestrial, in-vehicle, and space systems may be used to enhance mobility and autonomy in transport. Experts from the transport sector will share their experiences of using space technology for navigation and communication, and current projects will be presented.

Organiser
Roberta Mugellesi Dow, European Space Agency – ESA, United Kingdom

Moderator
Fiammetta Diani, European GNSS Agency – GSA

Speakers
Chris Kettel, Transport Research Laboratory – TRL, United Kingdom
Xiaolin Meng, Tingham University, United Kingdom
Angelos Amditis, Institute of Communication and Computer Systems – ICCS, Greece
Filippo Visintainer, Centro Ricerche FIAT, Italy
Jessica García Soriano, Ficosa, Spain

SIS47 – Seamless provision of electromobility services as a prerequisite for deployment of electromobility

TOPIC: 6 ITS and the environment 09:00 – 10:30 (Madrid 1)

The lack of standardisation regarding information exchange and services provision for electromobility makes communication among involved actors very difficult. This limits the potential for interoperable and seamless electromobility services to a wider public, a wider range of actors, and a wider geographic area, thus hindering wider EV market introduction. The goal of this session is to gather key services providers to present the current status and latest developments towards the seamless interoperability of electromobility services aiming to create an open and widely accepted ecosystem for electromobility. The presenters will present among others the customers’ needs for interoperable services, the efforts for creation of common information models for electromobility, the works towards the establishment of a pan European eRoaming framework based on a common and open European Inter-Roaming protocol and the establishment of an open market place of electromobility services.

Organiser
Angelos Amditis, Institute of Communication and Computer Systems – ICCS, Greece

Moderator
Angelos Amditis, Institute of Communication and Computer Systems – ICCS, Greece

Speakers
Sébastien Albertus, Renault, France
Christian Hahn, Hubject GmbH, Germany
Volker Fricke, IBM, Germany
Jean-Charles Pandazis, ERTICO – ITS Europe

SIS48 – Using data to manage traffic, reduce congestion and prioritise spending

TOPIC: 3 Transport networks evolution 09:00 – 10:30 (Luxembourg)

With limited budgets and the need to prioritise investment decisions across cities and strategic road networks, this session will bring together a new study from INRIX Research – which identified and measured 220,000 congestion incidents (or traffic jams) across 19 European countries – and real-world use cases from Denmark and Germany where they will share learnings and best practices from their experience in tackling congestion and roadway performance.

Organiser
Pamela Oldfield, INRIX, United Kingdom

Moderator
Andy Graham, White Willow Consulting, United Kingdom

Speakers
Graham Cookson, INRIX, United Kingdom
Joachim Wahle, TraffGO, Germany
Ake Egemalm, Danish Road Directorate, Denmark
SIS49 – Modelling the impact of connected and automated vehicles (CAVs) on network performance

TOPIC: 4. Connected and automated transport 09:00 – 10:30 (Londres 2)

It is generally accepted that connected and automated vehicles could improve road capacity and safety, and offer new mobility models. But the levels of benefits, how they evolve over time and deployment of vehicles, and the impact on network management are unclear which has large impacts on future investment and policy making. Much work to date around the World assumes a high uptake of CAVs, but what will be the impacts in the early days with only a few vehicles deployed? To explore this key question the United Kingdom studied the effects of different types and penetrations of CAVs on both safety and capacity, and on how roads are managed. This SIS will describe the key research findings and invite road operators, CAV providers and others to discuss what this means for networks in the short, medium and long-term future. Future research needs will also be presented for discussion.

Organiser
Jill Hayden, Atkins, United Kingdom
Moderator
Andy Graham, White Willow Consulting, United Kingdom
Speakers
James Padden, Department for Transport – DfT, United Kingdom
Jill Hayden, Atkins, United Kingdom
Daisuke Oshima, Pacific Consultants, Japan

SIS50 – Connected and automated transport is coming to European urban areas

TOPIC: 4. Connected and automated transport 09:00 – 10:30 (Amsterdam)

This special session takes stock of latest achievements in connected and automated driving in urban metropolitan areas in Europe. Several new projects started digging into connected driving in urban areas for improved energy efficiency. DG Mobility and Transport co-funds Maven, Volvo explores user patterns in Gothenburg, Tampere, Aachen, Vienna or Baden-Württemberg several cities are setting-up testing locations. In Vienna (Austria) Zukunft Wird Automatisiert brings automation to the C-ITS hotspots in and around Vienna (to be demonstrated at TRA2018 as an open living lab for Europe). Copenhagen adds perspective to our selection of pioneering initiatives at these newly emerging opportunities for Europe. Some OEMs’ announcements suggest that automated transport might quickly become available. However, this brings an enormous need for rapid learning to all of us. Are transport authorities and city administrations ready for concurrent learning in times of rapid technological progress? Or will Europe risk its technological strength by trying to implement and learn abroad?

Organiser
Walter Aigner, Hitec, Austria
Moderator
Stephanie Leonard, European Commission, DG MOVE
Speakers
Robbin Blokpoel, Dynniq, The Netherlands
Marko Jandrisits, ASFINAG, Austria
Bahar Namaki Araghi, City of Copenhagen, The Technical and Environmental Administration, Traffic Department, Denmark
Klaus Rosino, Austrian Road Safety Board, Austria

SIS51 – Effective C-ITS deployment: a harmonised, hybrid-communications architecture for C-ITS environments

TOPIC: 4. Connected and automated transport 09:00 – 10:30 (Boston)

This session will present the work of the Harmonisation Task Group that is analysing a harmonised architecture to identify standards gaps for a complete Cooperative-ITS environment.

Organiser
Wolfgang Hoefs, European Commissio, DG CONNECT
Moderator
Suzanne Sloan, US Department of Transportation, United States
Speakers
Tom Lusco, Iteris, Inc., United States
Knut Evensen, Q-Free, Norway
Gianmarco Baldini, European Commission’s Joint Research Centre, Italy
PR01 – Training needs on new technologies for fleet managers and drivers

**TOPIC: 3. Transport networks evolution**  
11:00 – 12:30 (Berlin)

Use of on-board technologies and cooperative systems is becoming more important in commercial vehicles for passenger and in freight road transport. Currently there is a gap between the use of ADAS systems and the learning and training packages available for drivers and operators on how to use them effectively. Research and development of training programmes as to how drivers interact with and use these advance driver assistance systems is therefore required. Another subject requiring adaptation of training is cooperative ITS. A coordination and support action funded by the EC, CAPITAL project –Collaborative cApacity Programme on Its Training-educAtion and Liaison, will deliver a collaborative capacity building programme (including training and further education) for cities and for fleet managers. The goal of this session is to have a better understanding of needs and requirements for the development of better training on the use of technology for fleet managers and drivers.

**Organiser**  
Monica Giannini, IRU Projects, Belgium

**Moderator**  
Monica Giannini, IRU Projects, Belgium

**Speakers**  
Patrick Philipp, International Road Transport Union, Switzerland  
Evangelos Mitsakis, CERTH-HIT, Greece  
Andrew Morris, Loughborough University, United Kingdom  
Oihana Otaegui, Vicom, Spain  
Miguel Ángel Alonso Juliá Alonso Juliá, ALSA, Spain  
Udi Remer, Mobileye Vision Technologies, Israel

PR02 – Assuring cross border services continuity – myth or reality

**TOPIC: 1. Mobility services – from transport to mobility**  
14:00 – 15:30 (Berlin)

Are we on the right direction to reach the objective to have harmonised ITS deployment beyond borders? The European Commission is active in boosting Member States cooperation. The session will present successful cross border ITS implemented in MedTis and Arc Atlantique project (co-financed by the European Commission). These deployments will consist of a series of proven ITS technologies and services which have known and proven impacts on the efficiency of the road network as well as successful cross border services. It will include traffic management systems and services and traffic information services that support traffic managers in directing traffic operations.

**Organiser**  
Malika Sedi, ASFA, France

**Moderator**  
Paul Wadsworth, Capita, United Kingdom

**Speakers**  
Cédric Petitcolin, Autoroute et Tunnel du Mont Blanc – ATMB, France  
Eric Ollinger, Ministry of Ecology, Sustainable Development and Energy, France  
Pierpaolo Tona, European Commission, INEA  
Annie Canel, ASFA, France  
Frédéric Ambleton, VINCI Autoroutes, VINCI, France  
Roberto Arditi, Sina, Italy  
Sara Rodriguez, abertis, Spain  
Steve Narroway, Highways England, United Kingdom

PR03 – Intelligent networked logistics: the AEOLIX digital ecosystem

**TOPIC: 2. Next generation goods delivery**  
16:00 – 17:30 (Berlin)

The Logistic Industry of the future is evolving very quickly due the impact of trends like IoT, Cybersecurity or Big Data. Nowadays, the logistics systems are dealing with distributed resources, interconnecting with more and more systems, services and objects, causing technical, economic and organisational challenges for all of them. One of them is dealing with the data, which come in many forms: from usage data collected automatically by sensors for products and services, through data collected during the transport operations or customers feedback. The data is the key for enabling Logistics Visibility demanded by the stakeholders. AEOLIX proposes a digital ecosystem to deal with the complexity of the connectivity of the logistics systems and devices and their communication with any other system or device, enabling information visibility to better manage, plan and synchronise freight and logistics operations across logistics collaborative networks in Europe.

**Organiser**  
Manuela Flachi, ERTICO – ITS Europe

**Moderator**  
Peter Schmitting, ERTICO – ITS Europe

**Speakers**  
German Herrero, ATOS, Spain  
Fernando Liesa, ALICE, Spain  
Nik Delmeire, European Shippers’ Council – ESC, Belgium
The Cooperative ITS Corridor from Rotterdam (The Netherlands) via Frankfurt/M (Germany) to Vienna (Austria), initiated by the ministries of transport in the three countries, is the first initiative to deploy common C-ITS services in an operational transport environment. This session provides insights into the C-ITS Corridor and the lessons learned for C-ITS deployment in Europe. The session includes a short introduction to the C-ITS Corridor, common and specific project experiences of the front runners in the three countries, complemented by specific presentations regarding 1) C-ITS Service Harmonisation, Validation and Testing 2) IT Communication Security 3) Conformance Assessment, Living Lab’s 4) International Cooperation, results & achievements. High level representatives will report on these topics and the contributions of the C-ITS Corridor towards a successful C-ITS deployment in Europe. This concerns common service specifications, but also testing and validation with industry partners and the approach for addressing communication security and data privacy.

Organiser
Alexander Froetscher, AustriaTech – Federal Agency for Technological Measures Ltd., Austria

Moderator
Torsten Geissler, BAST, Germany

Speakers
Manfred Harrer, ASFINAG Maut Service GmbH, Austria
Ralf Meschede, BAST, Germany
Helge Molin, Austrian Federal Ministry of Transport, Innovation and Technology BMVIT, Austria
Christian Leitzke, Hessen Mobil, Germany
Serge van Dam, Ministry of Infrastructure and the Environment – Rijkswaterstaat, The Netherlands

PR05 – Public procurement challenges for facilitating innovative transport and mobility solutions

TOPIC: 7. Freestyle – Your new idea
11:00 – 12:30 (Berlin)

Traditionally the transport sector developments and implementations of new services dominantly depend on public investment. However, the fast development of technologies and complexity of the new services creates many challenges for public authorities to invest and use the traditional public procurement for accommodating the complexity of the new solutions and services. The innovative solutions are difficult to be purchased within the traditional procurement framework, as well as handling the risk associated with the innovation is not well determined in the traditional framework. The new services require new partnership model and new investment strategy. There is thought about new investment strategies to accommodate complexity of new procurement methods, where instead of using the public fund to purchase transport services, these resources should be used as an enabler to motivate the market to act as a self-driven engine. This session invites national, regional and city government to share their experiences and ideas.

Organiser
Bahar Namaki Araghi, City of Copenhagen, The Technical and Environmental Administration, Traffic Department, Denmark

Moderator
Sabine Hilfert, Free and Hanseatic City of Hamburg – Senate Chancellery, Germany

Speakers
Steffen Rasmussen, City of Copenhagen, The Technical and Environmental Administration, Centre for Traffic and City in Use, Denmark
Sami Sahala, Forum Virium Helsinki, City of Helsinki, Finland
Fred Zijderhand, Ministry of Infrastructure and the Environment – Rijkswaterstaat, The Netherlands
Bianca Kapl, AustriaTech – Federal Agency for Technological Measures Ltd., Austria
Mika Kulmala, City of Tampere, Finland
Lasse Stender, North Region Denmark, Denmark
Chris Wragg, Northamptonshire County Council, United Kingdom
**PR06 – A way to ensure convergence between eCall, C-ITS and dangerous goods ADR specifications**

*TOPIC: 2. Next generation goods delivery*

14:00 – 15:30 (Berlin)

Dangerous Goods Inland Transport (DGT) is regulated at international level by UNECE for 48 countries and endorsed by the European Union. UNECE Telematic working group has defined a proposal for an architecture in order to introduce electronic document and to replace paper on board document. eCall and DGT description could be integrated (e.g. linking the location of an accident to the dangerous goods information available, for a more effective emergency intervention). Moreover ETSI standards for C-ITS introduce such a description in Cooperative Awareness Message (CAM) related to the exchange of information between the infrastructure and the road users and in the Decentralized Environmental Notification Messages (DENM) that support road hazard warnings. The session will offer an overview of the topic through different projects that will explain the solutions they implemented. It will help the participants to take into account the best integration to minimise redundancy and to discuss the best way for implementation.

**Organiser**
Fiammetta Diani, European GNSS Agency – GSA

**Moderator**
Fiammetta Diani, European GNSS Agency – GSA

**Speakers**
Antonella Di Fazio, Telespazio, Italy
Harry Evers, ITS Deutschland GmbH, Germany
Miroslav Haltuf, H-Comp Consulting, Czech Republic
Nicola BASSI, UIRNET, Italy
Claude Pfauvadel, Ministry of Ecology, Sustainable Development and Energy, France

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**PR07 – Implementation of Floating Car Data by road authorities**

*TOPIC: 4. Connected and automated transport*

16:00 – 17:30 (Berlin)

Floating Car Data is being procured by road authorities on an ever-growing scale. It appears that the use of mobile sources to produce traffic data is starting to become a commodity and is able to serve a variety of processes and applications. Which challenges have road authorities faced in the past years while researching FCD and preparing for their tenders? Which issues are they still dealing with, and which opportunities lie ahead? This session will offer four different perspectives on the procurement and implementation of FCD by road authorities. Contributions will be given by organizations from the The Netherlands, Denmark, Sweden and Austria, where FCD has been implemented by road authorities.

**Organiser**
Edoardo Felici, National Data Warehouse for Traffic Information – NDW, The Netherlands

**Moderator**
Olaf Vroom, National Data Warehouse for Traffic Information – NDW, The Netherlands

**Speakers**
Charlotte Neumanen Holstrøm, Danish Road Directorate, Denmark
Karl Rehl, Salzburg Research, Austria
Edoardo Felici, National Data Warehouse for Traffic Information – NDW, The Netherlands
Susanne Planath, Trafikverket, Sweden

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**PR08 – Improving efficiency of freight and logistics through C-ITS**

*TOPIC: 2. Next generation goods delivery*

09:00 – 10:30 (Berlin)

A vast amount of technologies is already available today to manage different aspects of goods movement, but these existing systems are currently not always linked to each other, missing the opportunity to optimise their performance through coordination, above of individual business requirements. This session will prove the value of C-ITS in optimising goods movement in urban and suburban areas by reporting on the results of the 5 services deployed by European project CO-GISTICS in 7 logistics hubs, some of them also part of the COMPASS4D network, having tested similar services for passengers. The services deployed by CO-GISTICS and the project partners have proven good results in increasing efficiency of logistics operations such as port loading/unloading optimisation, last mile delivery and automation as well as reducing CO2 emissions correlated to large fuel savings and full transparency of use of vehicles.

**Organiser**
Manuela Flachi, ERTICO – ITS Europe

**Moderator**
Iraklis Stamos, IRU Projects, Belgium

**Speakers**
Josep Maria Salanova Grau, CERTH-HIT, Greece
Andre Perpey, Geoloc Systems, France
Klaus Grabert, T-Systems, Germany
Stephen George, City of Birmingham, United Kingdom
Hermann Grünfeld, Hamburg Port Authority, Germany
**TS01 – ITS improving air quality 1**

**TOPIC: 6. ITS and the environment 11:00 – 12:30 (Madrid 1)**

- TP0806 – Ground-level feeding systems: from rail to road transport
  Patrick Duprat, Alstom, France

- TP0831 – Changing the behaviour of travellers in urban areas using Smart Multimodal Route Detection
  Ward Koopmans, CGI Netherlands, The Netherlands

- SP0839 – Node: Transport, urban and energy policies for an efficient multi-modal station?
  Anne-Sophie Fulda, EIFER, Germany

- TP0882 – Development of Real-World Driving and Battery Predictions for Electric Buses by Using Big Data Analysis Models
  Erdem Ünal, Temsa, Turkey

- TP0896 – Intelligent Traffic Solutions for sustainable urban mobility in Copenhagen
  Mads Gaml, City of Copenhagen, The Technical and Environmental Administration, Traffic Department, Denmark

- TP0975 – Radar detection of traffic queues in PPA-Noord
  Anna Cristofoli, ARS Traffic & Transport Technology, The Netherlands

**TS02 – Incident and traffic management strategies 1**

**TOPIC: 3. Transport networks evolution 11:00 – 12:30 (Londres 1)**

- TP0764 – Predictive Maintenance – Operative implementation in an inhomogeneous fleets/ operational network
  Manfred Bock, T-systems International GmbH, Germany

- TP0921 – Travel time data – Experiences and challenges
  Torbjørn Haugen, NTNU – Norwegian University of Science and Technology, Traffic Engineering Research Centre, Norway

- TP0956 – WRONG-WAY DRIVERS: DETECT AND WARN
  Ghislaine Baillemont, APRR, France

- TP0968 – An innovative SIL2 full-web Traffic Management System and an intelligent decision support tool for the new beltway of Marseille
  Sylvain Nachef, Bouygues Energies & Services, France

- TP0979 – RESOLUTE approach for building resilient UTS
  Emanuele Bellini, University of Florence, Italy

**TS03 – Communication solutions**

**TOPIC: 4. Connected and automated transport 11:00 – 12:30 (Madrid 2)**

- SP0771 – Improving supply chain processes by subscription to milestones.
  Wout Hofman, TNO, The Netherlands

- TP0773 – RFID based vehicle-infrastructure communication system for road maintenance
  Arnaud Gorin, Cerema, France

- TP0795 – ITU-T Connected Vehicle Gateway Platform
  Romain Rollet, Mitsubishi Electric R&D Centre Europe, France

- TP0837 – Packet Relay-Assisted V2V Communication with Cooperative Relay Stations in Urban Environment
  Tien Trien Le, The University of Electro-Communications, Japan

- TP0843 – Managing Automated Vehicles Enhances Network
  Jaap Vreeswijk, MAP Traffic Management, The Netherlands

- TP0988 – Latest achievements in connected driving in the Vienna metropolitan area
  Thomas Novak, SWARCO Futurit, Austria
TS04 – Satellite enabled safety & security services

TOPIC: 5. Satellite technology applied to mobility 11:00 – 12:30 (Bruxelles)

TP0746 – Implementation and development of the “GLONASS+112” system in the Republic of Tatarstan
Geller Anatoly, Ministry of Informatization and Communication of the Republic of Tatarstan, Russia

TP0811 – “EGNOS added value in ITS applications”
Virginia Anton Sastre, ESSP SAS, Spain

TP0814 – Functional Safe Integration of GNSS for Safety Critical Driving Functions and Automated Driving – The NAVENTIK approach
Robin Streiter, NAVENTIK GmbH, Germany

TP0815 – “NAVI CAMPUS”: an enhanced GPS navigation app for university campuses
Jesus Zegarra Flores, Altran Research Medica, France

SP0886 – Weighting-function based map-matching algorithm for a reliable wrong-way driving detection
Jinyue Wang, Institute of Engineering Geodesy, University of Stuttgart, Germany

TS05 – Overcoming barriers and borders

TOPIC: 1. Mobility services – from transport to mobility 14:00 – 15:30 (Varsovie)

TP0753 – Moveus Project: Ict Cloud-Based Platform And Mobility Services
Sergio Fernandez Balaguer, Empresa Municipal de Transportes de Madrid (EMT), Spain

TP0803 – More Than the Sum of Its Parts? The Finnish Public's Perspectives on Mobility-as-a-Service and ITS
Jana Sochor, Chalmers University of Technology, Sweden

TP0825 – Business model and contractual framework for implementing a pan-European e-market place of mobility services
Meng Lu, Dynniq, The Netherlands

SP0851 – Mobility as a service business and operator models
Aki Aapaoja, VTT Technical Research Centre of Finland Ltd, Finland

TP0938 – Linking services – a chance to leave the shores of stranded investments
Alexander Hausmann, AustriaTech – Federal Agency for Technological Measures Ltd., Austria

TP0953 – Cross-border Travel Time continuity between Italy, France, and Spain in MEDTIS corridor
Frederic Ambleson, VINCI AUTOROUTES, VINCI, France

SP0990 – Which business models for autonomous vehicles?
Jaâfar Berrada, VEDECOM – LVMT, France

TS06 – ITS improving air quality 2

TOPIC: 6. ITS and the environment 14:00 – 15:30 (Madrid 1)

TP0755 – IKAAS project: "Intelligent Knowledge-as.-a-Service Platform"
Sergio Fernandez Balaguer, Empresa Municipal de Transportes de Madrid (EMT), Spain

TP0802 – A novel concept of “Low Emission Corridor” empowered by ITS: the BrennerLEC project
Roberto Cavaliere, IDM Südtirol / Alto Adige, Italy

SP0858 – Cycle2Work: An Empirical Study on Potential Personalised Rewarding Schemes Delivered via Smartphone Technologies
Bingyuan Huang, University of Twente, Centre for Transport Studies, The Netherlands

TP0871 – Methodology for assessing a speed reduction measure on highway intended to improve air quality
Fabrice Reclus, Cerema Territoires et ville, France

TP0999 – How ITS can contribute to reducing CO2 emissions of road transport: The quick wins
Andrew Winder, ERTICO – ITS Europe

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TS07 – Incident and traffic management strategies 2

TOPIC: 3. Transport networks evolution 14:00 – 15:30 (Londres 1)

TP0760 – Regional road network’s simulation and control system status of work’s performance on maintenance of roads during the winter period
Artyom Chukin, Ministry of Transport and Roads of the Republic of Tatarstan, Russia

TP0774 – Improving winter road management with variable messages signs
Alexis Bacelar, Cerema, France

SP0786 – Traffic condition detection in freeway by using autocorrelation of density and flow
Hamid Torfehnejad, RMTO, Iran

TP0892 – Improve the Road Safety with a Predictive Incident Software
Richard Lengrand, EGIS, France

TP0949 – Traffic safety performance monitoring using hidden Markov models
Kun Xie, New York University, United States

TS08 – Freight and logistics tools 1

TOPIC: 2. Next generation goods delivery 14:00 – 15:30 (Luxembourg)

TP0789 – Intelligent transport systems in the Republic of Tatarstan: Integrated solutions of Weight Control, Toll Roads and video enforcement
Rifkat Minnikhanov, “Road Traffic Safety” state-financed institution, Russia

SP0862 – Impact assessment of cooperative services for freight transport
Josep Maria Salanova Grau, CERTH-HIT, Greece

TP0870 – Sensor Evaluation for high vehicle occupancy lane
David Gil, Cerema, France

TP0874 – Exploring the commercialization potential of freight transport services the CO-GISTICS project
Iraklis Stamos, IRU Projects, Belgium

TP0875 – Key messages for the logistics and road freight transport sector the AEOLIX project
Iraklis Stamos, IRU Projects, Belgium

TP0901 – Heavy Vehicle Access Control Using Present C-ITS Standards
Jo Skjermo, SINTEF, Norway

TP0910 – A methodological approach for a Cost-Benefit Analysis of cooperative freight transport services
Selin Hadjidimitriou, ICOOR, Italy

SP0914 – Trust in horizontal collaboration toward freight and logistics operations
Gideon Mbiydzenyuy, NetPort Science Park and Borás University, Sweden

TS09 – Cooperative communication technology

TOPIC: 4. Connected and automated transport 14:00 – 15:30 (Madrid 2)

TP0808 – Connected Intelligent Transport Environment (CITE)
Clifford Lunnon, Highways England, U.K

TP0877 – Towards 5G : An experimental connectivity platform for V2X communications
Alain Servel, PSA, France

TP0925 – Analysis of 802.11p safety messaging in a real world environment
Peter Vermaat, TRL, United Kingdom

TP0940 – Hybrid Communication in ITS
Paul Spaanderman, InnoMo, Monaco

TP0984 – Coexistence tests on test site between ETC CEN DSRC 5.8 GHz and cooperative systems ITS-G5 5.9 GHz
Gwenaëlle Toulminet, ASFA, France
TS10 – Integrating transport strategies 1

**TOPIC: 3. Transport networks evolution** 16:00 – 17:30 (Londres 1)

TP0775 – The satellite navigation for the transport of dangerous goods: improvement of safety and contribution to the coordination of transport modes
Antonella Di Fazio, Telespazio, Italy

TP0796 – Exploiting data for better Urban Mobility
Richard Harris, Real ITS Global, United Kingdom

TP0812 – Cycle Detection using Piezo-Electric Arrays
Brian Davidson, Glasgow City Council, United Kingdom

TP0841 – Why is ITS evaluation important for public authorities?
Barbara Flechl, AustriaTech, Austria

TP0855 – Cross-modal challenges and opportunities in transport safety
Isabela Erdelean, AIT Austrian Institute of Technology GmbH, Austria

TS11 – Automated and electric buses or shuttles

**TOPIC: 4. Connected and automated transport** 16:00 – 17:30 (Madrid 2)

TP0768 – Citymobil2: San Sebastian ARTS demonstration
Jesus Murgoitio, Tecnalia Research & Innovation, Spain

TP0784 – Autonomous Shuttles on Public Roads; Lessons Learned
Jan Willem van der Wiel, Spring innovation management BV, The Netherlands

TP0794 – Open road piloting of automated electric busses – first experiences and lessons learned
Harri Santamala, Metropolia University of Applied Sciences, Finland

TP0909 – The Role of Cooperative ITS in Supporting Electric Buses
Marcin Seredynski, E-bus Competence Center, Luxembourg

TP0923 – First autonomously driving city bus with maximum speed of 70 km/h
Frans van Waes, Vialis B.V., The Netherlands

TS12 – Satellite technology for transport network monitoring

**TOPIC: 5. Satellite technology applied to mobility** 16:00 – 17:30 (Bruxelles)

TP0743 – Automation of control processes and acceptance on construction, repair and the maintenance works of highways and road constructions in the Republic of Tatarstan
Sadykov Airat, Ministry of transport and road economy of the Republic of Tatarstan, Russia

SP0847 – Small satellite solutions for land transport monitoring
Aki Aapaoja, VTT Technical Research Centre of Finland Ltd, Finland

SP0866 – Opening up Danish FCD – examples of use cases
Niels Agerholm, Department of Civil Engineering, Aalborg University, Denmark

TP0964 – Les nouvelles applications utilisant les données remontées par les véhicules connectés
Porta Renaud, AUTOROUTES TRAFIC, France
TS13 – Data for environmental decision taking

**TOPIC: 6. ITS and the environment**

09:00 – 10:30 (Madrid 1)

**TP0834 – Floods-prone community’s perceptions towards using ITS technologies**
Izza Anwer, Institute for Transport Studies, University of Leeds, United Kingdom

**TP0894 – Better, cheaper, more reliable data as the key to evaluation for more sustainable transport systems**
Anna Clark, Trivector Traffic AB, Sweden

**TP0912 – Bridging the gap between service providers and people**
Caroline van der Weerdt, TNO, The Netherlands

**TP0916 – Real-time V2I Communication Based CO2 and NOx Emission Monitoring**
Ernst Pucher, TU Wien, Austria

TS14 – Integrating transport strategies 2

**TOPIC: 3. Transport networks evolution**

09:00 – 10:30 (Londres 1)

**TP0781 – Bus priority in nantes – reaching tramway standards with a radio system**
Olivier Nau, Setec its, France

**TP0785 – Traffic Management 2.0, Contractual agreements and Schemes**
Tiffany Vlemmings, National Datawarehouse for Traffic Information (NDW), The Netherlands

**TP0797 – Adaptive traffic management system in Kazan – priority for public transport and emergency vehicles – implementation and perspectives**
Roman Egorov, LLC Inspectra, Russia

**SP0878 – Uppaal Stratego for Intelligent Traffic Lights**
Marco Muniz, Aalborg University, Denmark

**TP0950 – Developing a framework to model advanced priority strategies for emergency vehicles**
Fabio Galatioto, Transport Systems Catapult, United Kingdom

TS15 – Field testing / test beds

**TOPIC: 4. Connected and automated transport**

09:00 – 10:30 (Madrid 2)

**TP0816 – Verification of Automated Driving Based on Real-World Driving Data**
Christian Roesener, ika – RWTH Aachen University, Germany

**SP0849 – Interoperable architecture between simulation and pilots for cooperative and automated driving**
Robbin Blokpoel, Dynniq, The Netherlands

**TP0854 – Development of an Urban Test Site for Automated and Connected Driving in Tampere, Finland**
Johan Scholliers, VTT Technical Research Centre of Finland Ltd, Finland

**TP0922 – Delivering the National Connected Multi-modal Transport Test Bed in Melbourne, Australia**
Dirk Van de Meersche, Cubic Transportation Systems, Australia

**TP0996 – Autonomous driving is coming to town: Vienna Zukunft Wird Automatisiert**
Walter Aigner, HiTec, Austria

**TP1008 – Software architecture methodology for field operational test beds**
Dirk Beckmann, German Aerospace Center (DLR), Belgium
TS16 – Novel data sources 1

**TOPIC: 1. Mobility services – from transport to mobility**

TP0820 – Automated smartphone based travel data collection from citizens – experiences and results of a trial implementation in Finland
Laura Nittylä, Mattersoft Ltd, Finland

TP0829 – How to use Internet of Things in vehicles massively to improve the transport infrastructure
Ibon Arechalde, ASIMOB, Spain

SP0857 – Inferring scholar mobility flows from census data: a multi-task learning approach
Mehdi Katranji, VEDECOM, Versailles

SP0888 – Management Oriented Performance Measures for Airport Security Checkpoints
Jijo K Mathew, Purdue University, United States

TP0989 – The Dutch approach to the availability of traffic data for innovative big-data applications
Edoardo Felici, National Data Warehouse for Traffic Information, The Netherlands

TP1004 – Deriving transport benefits from Big Data and the Internet of Things in Smart Cities
Matt Coleman, Department for Transport, United Kingdom

TS17 – Network management and strategies

**TOPIC: 3. Transport networks evolution**

TP0810 – Observations on the evolution of the EU transport regulation – past, present and future
Piia Karjalainen, European Parliament, Belgium

TP0822 – Planning ITS deployment within the European Union
Richard Bossom, Richard Bossom ITS Consulting Limited, United Kingdom

TP0833 – Development of ITS in Czechia, the action plan and its implementation
Petr Bureš, CTU in Prague, Faculty of transportation sciences, Czech Republic

SP0893 – Assessment of UK and US traffic control methods in microsimulation
Cameron Kergaye, Utah Department of Transportation, United States

TP0931 – Developing an ITS Strategy for Scotland
Paul Grayston, Jacobs, United Kingdom

TP0942 – Use of new data bases for demand modelling
Florian Koppelhuber, IKK ZT-GmbH, Austria

TS18 – Commercial transport services

**TOPIC: 4. Connected and automated transport**

TP0756 – INTRODUCING ATN TO THE SUSTAINABLE CITY
Dennis Mica, 2getthere, The Netherlands

TP0826 – Truck Platooning: an update after the European Truck Platooning Challenge
Arjan van Vliet, RDW, Netherlands Vehicle Authority, The Netherlands

TP0838 – INTRALOG – Intelligent Autonomous Truck Applications in Logistics; Autonomous rearward docking maneuvering on distribution centers
Lejo Buning, HAN Automotive Research, The Netherlands

TP0933 – How does connected and automated driving change professional drivers’ training needs
Merja Penttinen, VTT Technical Research Centre of Finland Ltd, Finland

TP0955 – Video Transmission for Autonomous Truck Platoons using WLAN Broadcast
Syed Siddique Ilahi, Karlsruhe Institute of Technology, Karlsruhe, Germany
## TS19 – Mapping & positioning

**TOPIC: 4. Connected and automated transport**  
11:00 – 12:30 (Amsterdam)

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<td>ETC service in C-ITS with high-precision of vehicle location</td>
<td>Malalatiana Randriamasy</td>
<td>Normandie Univ/Sane, France</td>
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<td>TP0787</td>
<td>Computer vision and automated traffic sign updates from commercial fleets</td>
<td>Markus Melander</td>
<td>Vionice Ltd, Finland</td>
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<td>TP0887</td>
<td>A Real Time Friction Map for The Complete Highway Network</td>
<td>Gottfried Allmer</td>
<td>ASFINAG, Austria</td>
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<td>TP0918</td>
<td>“Where in the lane” positioning for autonomous vehicles</td>
<td>Felipe Jimenez</td>
<td>Technical University of Automobile Research, Spain</td>
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<td>TP0929</td>
<td>Facilitating automated driving: Identification of requirements towards network operators</td>
<td>Thomas Courbon</td>
<td>Cerema, France</td>
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## TS20 – Automation deployment, impact & lessons learned

**TOPIC: 4. Connected and automated transport**  
11:00 – 12:30 (Bruxelles)

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<td>CP0777</td>
<td>Do we need control of the new “sharing industry” in cities ?</td>
<td>Roman Himmler</td>
<td>Kapsch TrafficCom AG, Austria</td>
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<td>TP0844</td>
<td>Beyond Traffic Jams: C-The Difference</td>
<td>Jaap Vreeswijk</td>
<td>MAP Traffic Management, The Netherlands</td>
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<td>SP0913</td>
<td>TRL and MRL of C-ITS as lessons learnt from the Austrian C-ITS Corridor ECo-AT</td>
<td>Wolfgang Schildorfer</td>
<td>HiTec Marketing, Austria</td>
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<td>TP0972</td>
<td>Infrastructure-based cooperative, connected and automated driving in a transition phase</td>
<td>Meng Lu</td>
<td>Dynniq, The Netherlands</td>
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<td>TP1000</td>
<td>Navigating the European road automation scene: an overview of current and upcoming activities in Europe and beyond</td>
<td>Davide Brizzolara</td>
<td>ERTICO – ITS Europe, Belgium</td>
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## TS21 – Novel data sources 2

**TOPIC: 1. Mobility services – from transport to mobility**  
14:00 – 15:30 (Varsovie)

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<td>TP0799</td>
<td>Data Curation in an IoT based transport data sharing environment</td>
<td>Neil Hoose</td>
<td>Bittern Consulting Ltd, United Kingdom</td>
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<td>Light scale real-time public transport information system – making passenger information available for smaller regions</td>
<td>Laura Niittyliä</td>
<td>Mattersoft Ltd, Finland</td>
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<td>TP0830</td>
<td>Interoperability Framework and Governance enabling Mobility as a Service</td>
<td>Guido Di Pasquale</td>
<td>UITP, Belgium</td>
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<td>SP0876</td>
<td>Constraints for a large-scale ITS data-sharing system: a use case in the city of Ghent</td>
<td>Pieter Colpaert</td>
<td>Ghent University – imec – IDLab, Belgium</td>
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<td>TP0905</td>
<td>Investigating Transit Passenger Arrivals using Wi-Fi and Bluetooth Sensors</td>
<td>Abdullah Kurku</td>
<td>New York University, United States</td>
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<td>TP0998</td>
<td>Framework for modelling MaaS using ABM and real-time data from ride-sharing services</td>
<td>Patrizia Franco</td>
<td>Transport Systems Catapult, United Kingdom</td>
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TS22 – New management tools

TOPIC: 3 Transport networks evolution 14:00 – 15:30 (Londres 1)

TP0741 – Traffic Management as a Service
Pieter Morlion, City of Ghent, Belgium

SP0852 – Emerging Hot Spot Analysis of Tracking Data from a Logistics Company: How fast does freight move?
Kristian Hegner Reinau, Department of Civil Engineering, Aalborg University, Denmark

SP0881 – Optimizing urban highway through on-ramp traffic light control
Andrey Alekseenko, Innopolis University, Russia

TP0885 – Blue Wave – the sequel: a multi-modal approach to network optimisation
Giovanni Huisken, MApTM, The Netherlands

TP0967 – Increasing congestion and traffic patterns knowledge with the use of archived traffic databases
Thomas Courbon, Cerema, France

TP0970 – Recent Results of All Lane Running (ALR) in England with reference to Stakeholder Feedback
Joe Castle, Atkins, United Kingdom

TP0980 – Centauro: Connected Environments for Negotiated Traffic Control and Urban Optimization
Efthychios Papapanagiotou, Technical University Munich, Germany

TP0982 – Simulation Network-Level Relationships of Traffic Flow
Vladimir Zyryanov, Don State Technical University, Russia

TS23 – Safety ad innovative applications of C-ITS

TOPIC: 4 Connected and automated transport 14:00 – 15:30 (Madrid 2)

TP0751 – Analysis of Pedestrian Fatality Statistics and Vehicle-to-Pedestrian Communication for Crash-Warning
Hiroyumi Onishi, Alpine Electronics Research of America, United States

TP0793 – A-priori map information and path planning for automated valet-parking
Sebastian Klaudt, Ika – RWTH Aachen University, Germany

TP0823 – Connectivity will make motorcycling safer
Tomohiro Matsuda, Kawasaki Motors Europe N.V., The Netherlands

TP0919 – Assessing opportunities and threats of autonomous vehicles to non-equipped, active modes in urban areas
Ceri Woolsgrove, European Cyclists’ Federation, Belgium

TP0986 – Off-road autonomous vehicle for military missions
Felipe Jimenez, Technical University of Automobile Research, Spain

TP0995 – Innovative Demonstrated C-ITS Use Case: V2X Pedestrian Warning Solution
Stephane Gervais, NEAVIA Technologies, France

TS24 – Privacy & legislation for automated systems

TOPIC: 4 Connected and automated transport 14:00 – 15:30 (Bruxelles)

TP0761 – The legal challenges of the connected vehicle
Myriam Hoeffler, VEDECOM, France

TP0770 – Deployment of connected and automated vehicles: a service of general interest
Guillaume Farny, ITS Bretagne, France

TP0873 – LEGALISATION FOR AUTOMATION: A GOVERNMENTAL ROADMAP
Gerben Feddes, RDW, The Netherlands Vehicle Authority, The Netherlands

TP0880 – Context, please! Privacy as Influential Factor of Autonomous Driving
Teresa Schmidt, RWTH Aachen University, Germany

TP0900 – Data Protection and C-ITS – Personal Data
Wouter Haaften van, University of Amsterdam, The Netherlands
TS25 – Information platforms

**TOPIC: 1. Mobility services – from transport to mobility**

**TS25 – Information platforms**

**16:00 – 17:30 (Varsovie)**

**SP0765 – Automated system of towed vehicles registration and mobile application in the Republic of Tatarstan**
Maria Dagaeva, "Road Safety" Organization, Russia

**TP0805 – Architecture and use cases of the mobility service platform MOBiNET**
Tobias Schlauch, German Aerospace Center (DLR), Germany

**TP0952 – Open Payment to ease cross-border mobility**
Lionel Lepoutre, Worldline, France

**TP0962 – Platform e-BUS for touristic buses access**
Paolo Guarnieri, Autostrade Tech S.p.A., Italy

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TS26 – Towards digital networks 1

**TOPIC: 3. Transport networks evolution**

**TS26 – Towards digital networks 1**

**16:00 – 17:30 (Londres 1)**

**TP0809 – Exchanging Traffic Management Plans data between Traffic Management Centres and Service Providers in Traffic Management 2.0**
Jop Spoelstra, Technolution, The Netherlands

**TP0821 – Traffic Management of the future and Autonomous Vehicles**
Evangelia Portouli, ICCS, Greece

**SP0908 – Improving of the road network efficiency by traffic flow formation management**
Alexander Belov, University of architecture and civil engineering, St.-Petersburg, Russia

**TP0989 – Solid-State LiDAR: Enabling High-volume Optical Sensor Deployments in ITS Applications**
Stephane Duquet, LeddarTech, Canada

**TP0992 – Collaborative Traffic Management (CTM)**
Larry Foister, Atkins, United Kingdom

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TS27 – User acceptance

**TOPIC: 4. Connected and automated transport**

**TS27 – User acceptance**

**16:00 – 17:30 (Madrid 2)**

**TP0804 – C-ITS Deployment Programme Framework**
Clare Woroniuk, Newcastle University, United Kingdom

**TP0902 – Automated vehicles – a perfect transport solution for the ageing society?**
Tom Voege, OECD, France

**TP0961 – Workers Mobility in Montpellier area: the relationship with the information**
Jade Guyon, LAMETA, France

**TP0974 – Scoping the key social and behavioural research questions associated with autonomous vehicles**
Samuel Omolade, Department for Transport, United Kingdom

**TP0981 – User Acceptance of Driverless Shuttles Running in an Open and Mixed Traffic Environment**
Sina Nordhoff, Delft University of Technology, Germany
TS28 – Roadside services including weather

TOPIC: 4. Connected and automated transport  
16:00 – 17:30 (Bruxelles)

TP0757 – Successfulness of link-based road weather forecasts in Finland  
Risto Öörni, VTT Technical Research Centre of Finland Ltd, Finland

TP0801 – Using Service Advertisement to realize Urban ITS (U-ITS) needs  
Bjørn Elnes, Aventi Technology, Norway

TP0845 – Guideline Placement C-ITS Roadside Units  
Yvonne Dierikx-Platschorre, Rijkswaterstaat, The Netherlands

TP0915 – Towards Intelligent Real-Time Road Weather Services Utilizing Mobile Vehicular Data  
Virve Karsisto, Finnish Meteorological Institute, Finland

TP0926 – Autonomic road side ITS systems  
Florin Nemtanu, Politehnic University of Bucharest, Romania

TP0994 – OBU and RSU receipt and acceptance testing in the Scoop project  
Guillaume Boussiron, Cerema, France

TS29 – Using mobility information

TOPIC: 1. Mobility services – from transport to mobility  
09:00 – 10:30 (Rome)

TP0782 – Multimodal real time information between urban and long-distance networks in Bordeaux  
Valérie Rosselet, Setec its, France

TP0842 – Best Practices on Traffic Management 2.0  
Evangelos Mitsakis, CERTH-HIT, Greece

TP0848 – Integration and homogenization of public transport data of Madrid Region public transport system on the open data portal of CRTM – Towards a smart mobility concept.  
Nuria Blanco, Consorcio Regional de Transportes de Madrid, Spain

CP0859 – Smart traffic management by means of smart  
Paul van Beek, Goudappel Coffeng, The Netherlands

TP0889 – Implementing nationwide harmonized road traffic information for Austria  
Tobias Schleser, ASFINAG, Austria

TP0937 – Application of Artificial Intelligence Techniques to Traffic Prediction and Route Planning: the vision of TIMON project  
Eneko Osaba, University of Deusto, Spain

TS30 – User services and needs

TOPIC: 1. Mobility services – from transport to mobility  
09:00 – 10:30 (Varsovie)

SP0788 – User-Centred Design in Public Transport: Discovering Mobile User Needs  
Yuval Cohen, Cubic Transportation Systems Ltd., United Kingdom

TP0891 – Raising Awareness of Using Public Procurement as an Instrument for Implementation of ITS in EU  
Yanying Li, ERTICO – ITS Europe

TP0904 – ASFINAGs’ mobility service “unterwegs” – state of play  
Martin Nemec, ASFINAG Maut Service GmbH, Austria

SP0917 – Crowdsourcing and Stigmergic Approaches for (Swarm) Intelligent Transportation Systems  
Salvatore Distefano, Kazan Federal University, Russia

TP0941 – Incidents Influence on Travel Times  
Lars Randleff, Hermes Traffic Intelligence, Denmark

TP0946 – Social Traffic Management: Livecrowd  
Ruud van der Dries, MAP Traffic Management, The Netherlands

TP0958 – Experiencing a carpooling line on the A43 Highway to increase mobility on the east side of LYON  
Christele Million, APRR, France

TP0965 – Deployment of an universal contactless payment facility on VINCI Autoroutes tollgates  
Frédéric Vautier, VINCI, France
TS31 – Towards digital networks 2

TOPIC: 3. Transport networks evolution 09:00 – 10:30 (Londres 1)

TP0790 – The Competitive Environment of the EETS
Cornelie van Driel, Rapp Trans (DE) AG, Germany

TP0813 – Hands-on experience: Implementing EETS Backoffice communication
Volker Vierroth, T-systems International GmbH, Germany

TP0868 – Cabotage Enforcement Solution for European highways on the example of France
Stefan F.A. DAXBERGER, Kapsch TrafficCom AG, Austria

TP0906 – Variable Message Signs for Bicyclists – How to deliver traffic information to bicyclists safely and in real time.
Jos van Vlerken, City of Copenhagen, The Technical and Environmental Administration, Denmark

TP0932 – Implementation of a Digital and Cooperative Infrastructure in Hungary
Tamas Tomaschek, Hungarian Public Road Non-profit Pte Co. LTD, Hungary

TP0947 – Classification of Vehicles Using Speed and Location Information
Jonas Lundholm Bertelsen, Hermes Traffic Intelligence, Denmark

TS32 – Safe operation of connected and autonomous vehicles

TOPIC: 4. Connected and automated transport 09:00 – 10:30 (Madrid 2)

TP0748 – System validation of highly automated vehicles with a database of relevant traffic scenarios
Andreas Puetz, fka Forschungsgesellschaft Kraftfahrwesen mbH Aachen, Germany

TP0798 – Design and Verification of Secure Autonomous Vehicles
Letitia Li, Telecom Paristech, France

TP0832 – Operational Safety for Autonomous Vehicles
Sven Maerivoet, Transport & Mobility Leuven, Belgium

SP0884 – Remote Sensing and Functional Safety in ITS
Henrik Eriksson, RISE Research Institutes of Sweden, Sweden

TP0935 – Road safety contribution request and implications to connected vehicle
Philippe Chretien, CEEASAR, France

TP0971 – Impacts of connected and automated vehicles on road safety in the UK
Jill Hayden, Atkins, United Kingdom

TS33 – Architectures and security

TOPIC: 4. Connected and automated transport 09:00 – 10:30 (Bruxelles)

TP0850 – Public Transport: accelerating the deployment of a standardised ITS architecture (EN13149)
Emmanuel de Verdalle, ITXPT association, Belgium

TP0853 – Cross-border interoperability of C-ITS services transmitted over cellular networks
Johan Scholliers, VTT Technical Research Centre of Finland Ltd, Finland

TP0911 – Cyber-secure internal architecture and materials for automotive
Erwan Broquaire, Cerema Sud-Ouest, France

TP0927 – Cooperative automation through the cloud: The CARMA project
Alan Stevens, TRL, United Kingdom

TP0960 – An Overview of Security Ongoing Work in Cooperative ITS
Ines Ben Jemaa, Irt-SystemX, France

TP0978 – C-ITS security insights: a practical example of TVRA analysis
Thomas Novak, SWARCO Futurit, Austria
CP1 – Freight and logistics tools 2

TOPIC: 2. Next generation goods delivery 16:00 – 17:30 (ITS Forum)

CP0792 – Making the most of the new generation of Port Community Systems
Marie Pavesio, MGI, France

CP0869 – Truck Parking Coordination at Hamburg Port
Oliver Strop, BLIC GmbH, Germany

TP0910 – A methodological approach for a Cost-Benefit Analysis of cooperative freight transport services
Selini Hadjidimitriou, ICOOR, Italy

CP2 – Mobility Services

TOPIC: 1. Mobility services – from transport to mobility 09:00 – 10:30 (ITS Forum)

CP0827 – LaSDIM: Optimized data infrastructure for Mobility
Michel Munoz, WELCOM'TV, France

CP0836 – Interoperability of electric vehicle charging infrastructure
Arnaud Mora, Freshmile, France

CP0865 – Bringing about SMART changes with innovative RTI and cloud based systems
Arild Sundal, FARA AS, Norway

CP0872 – From Trip Planning to Ticketing to Routing: Intermodal Apps Navigate into the Future
Dirk Esters, HaCon Ingenieurgesellschaft mbH, Germany

CP0930 – Weather and Road Condition Notifications for Road Users
Janne Miettinen, Finnish Meteorological Institute, Finland

CP0943 – Intelligent mobility in cities – The Urban Mobility Assistance (UMA)
Anton Anselm, Wolfsburg AG, Germany

CP0948 – Merging real-time and ticketing into the cloud; lessons learned
Arild Sundal, FARA AS, Norway

CP3 – New mobility solutions

TOPIC: 1. Mobility services – from transport to mobility 11:00 – 12:30 (ITS Forum)

CP0742 – Co-created autonomous vehicle system for an implementation in the EMEA region.
Maud Chidiac, Local Motors, Germany

CP0762 – Commercial Mobility as a Service: A West Midlands Case Study
Chris Lane, West Midlands Combined Authority, United Kingdom

CP0807 – MASAI: overcoming mobility barriers via a digital concierge in everyone’s pocket
Jorge Vieira da Silva, M2C – MASAI Mobility Community, Belgium

CP0860 – EC2B – Mobility as a Service connected to accommodation
Emma Lund, Trivector Traffic AB, Sweden

CP0861 – Carpooling with Kapsch Connected Next
Christoph Abart, Kapsch TrafficCom, Austria

CP0944 – Creating a global incentive strategy for sustainable mobilities.
Tronchon Nicolas, TransWay, France

TP0951 – PTV Mobility As A Service
Paul Speirs, PTV Group, United Kingdom

CP1011 – Mobility and Digital ITS : The opportunity for medium-sized municipalities
Laurence Medioni, Ubi Transports, France
CP4 – Novel network management techniques 1

TOPIC: 3. Transport networks evolution 16:00 – 17:30 (ITS Forum)

CP0776 – Decision Support Tool for traffic management centre in urban environment
Christophe Montano, SPIE Sud-Est, France

CP0791 – Has the EETS any Market Potential?
Cornelie van Driel, Rapp Trans AG, Germany

CP0800 – Enabling Traffic Management 2.0 with TomTom City
Maarten Clements, TomTom, Netherlands

CP0920 – Using Floating Car Data to optimize the traffic in Strasbourg Eurometropole
Thierry Glais, Thales Communications & Security, France

CP0963 – Application of Adaptive Signal Control in developing countries
Florian Weichenmeier, PTV Group, Germany

TP0983 – Improving Pedestrian Comfort in Public Spaces with Data Analysis:
Aurélien Belhocine, Qucit, France

CP5 – Novel network management techniques 2

TOPIC: 3. Transport networks evolution 09:00 – 10:30 (ITS Forum)

CP0928 – Digital asset management log for SmartCity maintenance
John Poole, Vionice ltd, Finland

CP0976 – SYMMON project
Thomas Epp, PTV Group, Austria

CP0985 – Intermodality, innovative mobilities and technologies on the “Contournement Ouest de Strasbourg”
Allix Margaux, Vinci Autoroutes, France

CP0987 – Automated Roadworks Validation with Floating Car Data
Maarten Clements, TomTom, The Netherlands

CP1001 – Detecting over-height and ADR vehicles on the new Marseille L2 outer ring
Stephen Collins, Macq, France

CP1002 – VEHICLE RECOGNITION FOR SMARTER CITIES
Francois Heuze, Survision, France

TP1014 – Crowd-based Benchmarking of Construction Site Information Quality on German Highways
Joachim Wahle, TraffGO, Germany
If you wish to attend any of these public Associated Events, please register via the Congress website. To allow access to the event venues, you must be registered to the Congress as well (minimum as Exhibition Visitor which is free of charge prior the event), via the website: www.strasbourg2017.itsineurope.com.

<table>
<thead>
<tr>
<th>Title</th>
<th>Date and time*</th>
<th>Organiser</th>
<th>Organising company</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESOA – Satellite Communication Meeting</td>
<td>Wednesday 21 June 14.00 – 17.30</td>
<td>François Fischer <a href="mailto:f.fischer@mail.ertico.com">f.fischer@mail.ertico.com</a></td>
<td>ERTICO – ITS Europe</td>
</tr>
<tr>
<td>ASFA Conference</td>
<td>Wednesday 21 June 09.00 –12.30</td>
<td>Malika Seddi <a href="mailto:malika.seddi@autoroutes.fr">malika.seddi@autoroutes.fr</a></td>
<td>ASFA</td>
</tr>
</tbody>
</table>

* Can be subject to change

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Find out about the work of Transport Systems Catapult, the UK’s Technology and Innovation centre for Intelligent Mobility on **stand C10**

To find out more go to **ts.catapult.org.uk**

Follow us @TSCatapult
Demonstrations

Do not miss the various demonstrations around the Congress Centre. They will showcase exciting innovative services towards citizens and mobility companies.

Autonomous shuttles, alternative energy vehicles, communicating infrastructure, innovative connected services etc. will be available onsite for the Congress Delegates and the visitors to experience our future (and present) mobility.

Local Strasbourg start-ups will also have their dedicated space to demonstrate the city’s vitality in terms of mobility innovation.

Come and visit the demo desk at the Congress Centre entrance to register for the demos or contact Strasbourg.demos@mail.ertico.com for more information!

Do not hesitate to check our website for any updates on the Demonstrations: www.strasbourg2017.itsineurope.com

Get up-to-date congress information straight to your smart phone (Apple and Android)

Strasbourg 2017 Congress App

Coming soon
PAS – Strasbourg Autonomous Port

Being the first inland port community system of its kind, the Rhine Ports Information System (RPIS) represents a state-of-the-art traffic management platform designed to connect all major stakeholders in container barge handling and boost their efficiency.

The recognition of the need to implement a common digital infrastructure has been a fundamental motivation behind the development of the RPIS, as the latter owes its success to the close collaboration between Rhine Ports Basel-Mulhouse-Weil, Port of Strasbourg, Rheinhäfen Karlsruhe and 4 other Upper Rhine Ports.

The visit of the Port of Strasbourg will comprise a visit of the container terminal and on-site demonstrations, mainly focusing on the Rhine Ports Information System (RPIS) for inland ports barge reservation.

Price
16,67 € Excl. VAT

Dates and Times
Tuesday 20 June 2017 – Meeting in the lobby of the Congress Centre at 10:30 AM
Wednesday 21 June 2017 – Meeting in the lobby of the Congress Centre at 15:30 PM

Note
Maximum 40 Participants

IoT-Lab by Icube / Karlsruhe Institute for Technology

The large scale open testbed IoT-LAB is designed to provide innovative solutions to mobility challenges via a large scale infrastructure facility suitable for testing small wireless sensor devices and heterogeneous communicating objects. The technical visit to the IoT-LAB will represent the perfect way to make science and business meet together and build the bridge between professionals, scientists and entrepreneurs via exchanging experiences, ideas and inspiring future cooperation. The technical visit to IoT-LAB will represent a unique chance to gain awareness on the French research practices and will more specifically focus on issues such as object mobility integration model and interoperability.

The visit will approximately last 1,5 – 2h and will include a presentation and a short tour which will aim to shed light on the innovative services and products of IoT-LAB.

Price
16,67 € Excl. VAT

Date and Time
Wednesday 21 June 2017 – Meeting in the lobby of the Congress Centre at 10:30 AM

Note
Maximum 30 Participants

SIRAC Strasbourg Traffic Management Centre

The visit at the Automated Traffic Information and Control Service, SIRAC is aimed to present the way SIRAC regulates the traffic flow within the agglomeration of Strasbourg, provides effective traffic speed increase through equipment at the cutting edge of innovation, predictive approach of events management and 24-hour service for users.

Apart from its traditional traffic management activities and maintenance missions, the scope of action and missions of SIRAC have expanded over time and it currently extends to providing the protection of pedestrian areas, real-time information for users, tunnels and passenger stands management and the implementation of the road safety policy and public transport priority in the Eurometropolis.

In addition to the discovery of the traffic management centre, the visit will focus on the feedback from the organization of the WTC car rally in the streets of the Eurometropolis of Strasbourg and its impact on the city traffic management system.

Price
16,67 € Excl. VAT

Dates and Times
Tuesday 20 June 2017 – Meeting in the lobby of the Congress Centre at 10:30 AM
Thursday 22 June 2017 – Meeting in the lobby of the Congress Centre at 10:30 AM

Note
Maximum 20 Participants
Our Accommodation and Housing specialists have secured rooms at a selection high quality hotels with flexible terms and conditions exclusively for attendees of the 12th ITS European Congress. Book early to secure your room and let our dedicated accommodation team look after you.

For more information, please visit our website: [http://strasbourg2017.itsineurope.com](http://strasbourg2017.itsineurope.com)

**Hilton Strasbourg ******
**Address:** 1, Avenue Herrenschmidt, 67000 Strasbourg, France

Price for a standard room:
- **Single use:** 153,64 € Excl. VAT
- **Double use:** 162,73 € Excl. VAT

**Hotel Villa d’Est ******
**Address:** 12, rue Jacques Kablé, 67000 Strasbourg, France

Price for a standard room:
- **Single use:** 136,36 € Excl. VAT
- **Double use:** 145,45 € Excl. VAT

**Mercure Strasbourg Palais des Congrès ******
**Address:** 20 Place de Bordeaux, 67000 Strasbourg, France

Price for a standard room:
- **Single use:** 136,36 € Excl. VAT

**Hôtel Régent Contades ******
**Address:** 8, avenue de la Liberté, 67000 Strasbourg, France

Price for a standard room:
- **Single use:** 172,73 € Excl. VAT
- **Double use:** 181,82 € Excl. VAT

**Le Grand Hôtel *****
**Address:** 12 Place de la gare, 67000 Strasbourg, France

Price for a standard room:
- **Single use:** 118,18 € Excl. VAT
- **Double use:** 127,27 € Excl. VAT
**General information**

**Internet access**
Wireless internet connection is available in all the areas of the Strasbourg Convention Centre.

**Language**
English is the official language of the Congress. All spoken presentations, printed material and online information will be available in English only.

**Insurance and security**
Kindly note that all attendees are requested to wear their badge for admission at all times. In case of a badge loss, a 35,00 € fee will occur.

Please do not leave your personal items or coats unattended. There will be a cloakroom at your disposal. In addition, regular badge control will take place throughout the Congress.

**Travelling to Strasbourg**

**Travel by air**
The airport is located roughly 30 minutes by car from the “Strasbourg Convention and Exhibition Centre”. Taxis are available at the Airport until the last flight: http://www.taxiproxi.fr/taxiproxi-et-aeroport-de-strasbourg?lg=en. Should you prefer another means of transportation, you can take the tram or the bus.

A shuttle bus operates between Strasbourg International Airport and the Baggersee tram station all year round. Shuttle leaves the airport every 30 minutes between 5.10am and 23.15pm. At the Baggersee tram station, you can take the tram line A which will guide you directly to the centre of the city.

For more information on the shuttle buses please go to http://www.cts-strasbourg.eu/en/.

Strasbourg is also located in close proximity to 3 other airports:
- Airport Baden Airpark (45 min by car)
- EuroAirport Basel Mulhouse Freiburg (1.5h by car)
- Frankfurt International Airport (2.5h by car/train)

**By public transport**
Strasbourg is most easily explored on foot, and the historic city centre can easily be explored in a day or two. To be able to cover more ground, you should consider hiring a bike or using the public transport network.

Buses and trams in Strasbourg are operated by the Compagnie des Transports Strasbourgeois (CTS). For more information on the shuttle buses please go to http://www.cts-strasbourg.eu/en/.

**Trams**
Tram is the most popular, most effective and by all means the most comfortable way of transport in Strasbourg. Four tram lines (A, B, C and D) connect all corners of the city and make city traffic more fluid. Lines A, B and C operate from Monday to Sunday from 4.30 till 0.30 while the line D operates every day, except Sunday, from 7.00 till 19.00.

The Strasbourg Convention Centre is very well-connected and just a few minutes away from the historic city Centre. Tram lines B and E are reaching the venue at “Wacken” stop station.

**Trains**
After Paris, Strasbourg has the second largest railway station in France and it is well served by regional, national and international train services, predominantly by SNCF (French Railways), but also by Deutsche Bahn (German Railways).

TGV trains offer a wide range of connections with other parts of the country, as well as with Germany, Switzerland, Belgium, Netherlands and other European countries, in shorter journey times.

Train services operate from the Gare de Strasbourg, the city's main station, which is located in the city centre, just 12 minutes away from the Conference Centre.

**Buses**
There are 27 bus lines in Strasbourg and most of them operate until 23.00 every day of the week. tickets can also be bought from the bus drivers.

**By car**
Strasbourg can be reached from various directions:
- from the west (Paris, Benelux) taking the A4 highway (E25). About 4 hours from Paris and 2 hours 15 minutes from Luxembourg
- from the south (Switzerland, Lyon), taking the A35 highway (E25). About 5 hours from Lyon
- from the north and east (Germany), taking the A5 highway (E35)

The Strasbourg Convention Centre is located 10 min away from all the motorway roads.

**Taxis**
If you arrive at the railway station, there are connections to the tram system and buses, with many taxis waiting outside (to the left of the station forecourt)

- MM.Taxi Strasbourg, +33 6 75 59 66 83
- Mondial Taxi, +33 3 88 23 10 10
- Taxi David, +33 3 88 96 96 96
- Taxi Oberlin, +33 3 88 36 20 74
Congress and exhibition venue

The 12th ITS European Congress will be taking place in the Strasbourg Convention + Exhibition Centre (SCEC)

**Address:** Place de Bordeaux, 67082 Strasbourg, France

The SCEC is the perfect location for the Congress. It’s superbly situated in Strasbourg and easily accessible. The Centre provides a wide range of Conference, Exhibition and concert facilities along with two 4 stars hotels located in the same area (2 minute walk).

**Cassin Auditorium**

The Opening Ceremony, the Closing Ceremony and the Plenaries will be taking place in the Cassin Auditorium located on the ground floor of the SCEC

**Speaker Ready Room**

The Speaker Ready room is located on the ground floor of the SCEC in the open area between the Session Rooms Rome and Amsterdam.

**Speaker ready room opening hours:**

<table>
<thead>
<tr>
<th>Date</th>
<th>Opening hours</th>
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</thead>
<tbody>
<tr>
<td>Monday, 19 June</td>
<td>10:00 – 18:00</td>
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<tr>
<td>Tuesday, 20 June</td>
<td>08:00 – 17:30</td>
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<tr>
<td>Wednesday, 21 June</td>
<td>08:00 – 17:30</td>
</tr>
<tr>
<td>Thursday, 22 June</td>
<td>08:00 – 12:00</td>
</tr>
</tbody>
</table>

**The exhibition**

The exhibition will be taking place in the Rhin Hall and Schweitzer Gallery. These areas are located on the ground floor of the SCEC

**Exhibition opening hours**

<table>
<thead>
<tr>
<th>Date</th>
<th>Opening hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monday, 19 June</td>
<td>18:00 – 20:00 Welcome reception *</td>
</tr>
<tr>
<td>Tuesday, 20 June</td>
<td>09:00 – 17:30</td>
</tr>
<tr>
<td>Wednesday, 21 June</td>
<td>09:00 – 17:30</td>
</tr>
<tr>
<td>Thursday, 22 June</td>
<td>09:00 – 14:00</td>
</tr>
</tbody>
</table>

* Due to space and security reasons, entrance will be granted on a first-come first-served basis – pre-registration required
CONGRESS & EXHIBITION VENUE

Strasbourg Convention + Exhibition Centre (SCEC) plan

- Exhibition and catering space
- Exhibition space
- Opening ceremony, closing ceremony and plenary sessions
- Breakout Rooms
- Hall Rhin: Exhibition
  Coffee breaks and lunch
- Speaker Ready Room
- Londres 2
- Londres 1
- Berlin
- Bruxelles
- Amsterdam
- Rome
- Madrid 2
- Madrid 1
- Luxembourg
- Varsovie
- ITS Forum
- Cassin Room
- Cloakroom
- Gallerie Schweitzer
- Badge printing and on-site registration
- Main entrance Schweitzer
- Close-up of the map

يجدر بالذكر أن هذا هو خريطة للحفلة الإعضائية والمساكن في المركز الدولي للحفلات والمساكن في شتوتغارت.

www.itsineurope.com  #ITSStrasbourg17  53
REGISTRATION

Registering onsite: procedure and badge

The registration desk will be located in the Schweitzer gallery of the Congress Centre and will be open on Monday 19th June, from 10:00 to 18:00. We strongly advise you to pick up your badge on Monday morning to avoid queues!

Registration desk opening hours

<table>
<thead>
<tr>
<th>Date</th>
<th>Registration hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monday, 19 June</td>
<td>10:00 – 18:00</td>
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<td>Tuesday, 20 June</td>
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<tr>
<td>Wednesday, 21 June</td>
<td>08:00 – 18:00</td>
</tr>
<tr>
<td>Thursday, 22 June</td>
<td>08:00 – 12:00</td>
</tr>
</tbody>
</table>

All the fees are in Euro and excluding VAT. Should you wish to have further information about the registration fees or the terms and conditions for each category, please visit [www.Strasbourg2017.itsineurope.com](http://www.Strasbourg2017.itsineurope.com)

Registration fees

Access to congress sessions and exhibition

<table>
<thead>
<tr>
<th>Type of participant</th>
<th>Type of pass</th>
<th>Early until 24/04</th>
<th>Standard from 25/04</th>
<th>From 16/06</th>
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<tbody>
<tr>
<td>Congress delegate</td>
<td>Full event</td>
<td>940 €</td>
<td>1.160 €</td>
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<td>One-day (Tue/Wed)</td>
<td>540 €</td>
<td>690 €</td>
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<td>One-day (Thur)</td>
<td>420 €</td>
<td>570 €</td>
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<tr>
<td>Exhibitor/sponsor delegate</td>
<td>Full event</td>
<td>840 €</td>
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<td>Student delegate</td>
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<td>French public sector</td>
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<td>Journalist/media</td>
<td>Full event</td>
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## Access to Congress Sessions and Exhibition (Speakers/Moderators)

<table>
<thead>
<tr>
<th>Type of participant</th>
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<th>Standard from 25/04</th>
<th>From 16/06</th>
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<tbody>
<tr>
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<td>One-day (Thur)</td>
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<td>Student speaker/moderator</td>
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<td></td>
<td>One-day</td>
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<tr>
<td>Accompanying person (access to exhibition only)</td>
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## Access to exhibition only

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<td>Full event</td>
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<tr>
<td>Exhibition stand personnel including lunches 2 per 9 sqm</td>
<td>Full event</td>
<td></td>
<td>Included in your stand package</td>
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<tr>
<td>Exhibition stand personnel excluding lunches max 2 per 9 sqm</td>
<td>Full event</td>
<td></td>
<td>Included in your stand package</td>
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<tr>
<td>Additional exhibition stand personnel including lunches</td>
<td>Full event</td>
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<td>175 €</td>
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</table>
SOCIAL EVENTS

Social Events

Welcome reception – 19 June

Immediately after the opening ceremony and Plenary session, you as well as your accompanying person(s) are cordially invited to the welcome reception taking place in the Exhibition Area in the Rhin Gallery and the Schweitzer Gallery.

The reception is an excellent opportunity to meet all your ITS Colleagues and network with our sponsors as well as exhibitors.

This networking experience is included in your registration fee and we kindly ask you to register for it.

Gala evening at La Villa Quai Sturm – 21 June

GALA EVENING AT LA VILLA QUAI STURM

The gala evening is the social highlight of the 12th ITS European Congress and will take place on Wednesday 21st June 2017 from 18:30 at La Villa Quai Strum.

This year, the ITS gala evening is inspired by Jay Gatsby's world with visually spectacular details, dazzling interiors, glittering lighting and opulence.

Throughout the evening, plenty of savoury selections and drinks will be offered, including French creations, alongside with a stunning arrangement of sweet treats, all specially prepared by local chefs.

Additionally, this delightful trip of flavours will be accompanied by spectacular entertainment, including varying short performances under the roaring 1920's vibes.

After a day of information gathering, this special evening is a great chance to unwind and network with your fellow congress participants.

Dress code: smart chic. We will embrace the Great Gatsby theme!

Secure your place during the registration process to a truly inspiring dining experience filled with delicious recipes and warm atmosphere. The fee is 110,00 € Excl. VAT and is inclusive of dinner, entertainment as well as transport from the SCEC to and the venue. Shuttles from the Villa Quai Sturm back to the venue is also foreseen.
Become an exhibitor

The Congress gives you exceptional access to the entire ITS community. Over 2,500 attendees from over 40 countries are represented. Attracting everyone from the most established and recognisable companies to new players and industry influencers.

By exhibiting, you position yourself among the latest ITS solutions and most advanced technologies that delegates will be looking for, putting you in the marketplace for the future of mobility.

To view our current availability please click here to see the floorplan.

<table>
<thead>
<tr>
<th>A10</th>
<th>VEDECOM</th>
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</thead>
<tbody>
<tr>
<td>A12</td>
<td>Kapsch</td>
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<tr>
<td>A14</td>
<td>TomTom</td>
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<td>A20</td>
<td>Swarco</td>
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<td>A22</td>
<td>PTV</td>
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<td>Inrix</td>
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<td>B22</td>
<td>TISA</td>
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## COMMITTEES

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