Final Programme
10th European Congress and Exhibition on Intelligent Transport Systems and Services

Helsinki, Finland
16-19 June 2014

Organised by:
ERTICO ITS FEDERATION

Hosted by:
ITS Finland
Ministry of Transport and Communications
Helsinki

Main local partners:
VTT
HSL
HEUREKA
HEURES
Helsinki Transport Agency

www.itsineurope.com
Acknowledgments

The European Programme Committee, on behalf of ERTICO – ITS Europe, would like to convey a heartfelt thanks to all the people who dedicated time and effort in reviewing papers and preparing the Congress Programme.
### MONDAY 16 JUNE

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<tr>
<td>09.00-15.00</td>
<td>Challenge</td>
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<tr>
<td>15.00-16.30</td>
<td>Opening Ceremony &amp; PRI Open Data enabling new mobility opportunities</td>
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#### TUESDAY 17 JUNE - INVESTORS

<table>
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<tr>
<th>Time</th>
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<tr>
<td>09.00-10.30</td>
<td>Coffee Break</td>
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<tr>
<td>11.00-12.30</td>
<td><strong>SIS21</strong> Future roadmaps and ITS research and innovation programmes</td>
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<td><strong>SIS22</strong> The future of C-ITS: V2X communication and road safety</td>
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<td><strong>SIS23</strong> Lessons from over 10 years of public transport open data</td>
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<td><strong>SIS24</strong> Europe-wide service platforms - measured &quot;Interests of mobility&quot;</td>
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<td><strong>SIS25</strong> ITS for energy efficiency</td>
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<td></td>
<td><strong>SIS26</strong> Creating a network of ITS professionals</td>
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<td></td>
<td><strong>SIS27</strong> Towards vehicle and road automation</td>
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<td></td>
<td><strong>SIS28</strong> Towards deployment of cooperative systems</td>
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<tr>
<td></td>
<td><strong>SIS29</strong> Next generation ITS professionals</td>
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<tr>
<td>12.00-13.30</td>
<td><strong>ES01</strong> Emerging ITS services</td>
</tr>
<tr>
<td></td>
<td><strong>ES02</strong> Do not let big datasets go to waste</td>
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<tr>
<td>14.00-15.30</td>
<td><strong>ES03</strong> Towards zero emissions</td>
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<td></td>
<td><strong>ES04</strong> From connected to automated vehicles</td>
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<tr>
<td></td>
<td><strong>ES05</strong> Towards mobility as a service</td>
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<tr>
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<td><strong>ES06</strong> Traffic management and control</td>
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<td><strong>ES07</strong> Automated vehicles</td>
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<td><strong>ES08</strong> Advanced Driver Assistance</td>
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<td><strong>ES09</strong> Zero emissions and air drilling</td>
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<tr>
<td>16.00-17.30</td>
<td><strong>ES10</strong> Detection technologies</td>
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### WEDNESDAY 18 JUNE - TRANSPORT NETWORK OPERATORS

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<tr>
<td>09.00-10.30</td>
<td>Coffee Break</td>
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<tr>
<td>11.00-12.30</td>
<td><strong>SIS31</strong> Developing cross-cutting concepts for logistics and supply chain management</td>
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<td><strong>SIS32</strong> International networking between cities</td>
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<td><strong>SIS33</strong> ENSA positioning needs for successful ITS</td>
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<td></td>
<td><strong>SIS34</strong> 5G/6G-based traffic systems and cooperative ITS: A winning team</td>
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<td><strong>SIS35</strong> Increasing confidence in vehicles</td>
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<td><strong>SIS36</strong> ITS for Vehicular Interactions</td>
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<td></td>
<td><strong>SIS37</strong> Efficient use of infrastructure</td>
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<tr>
<td></td>
<td><strong>SIS38</strong> Cooperation ITS is a cellular network</td>
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<td><strong>SIS39</strong> Human factors related to ITS</td>
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<td><strong>SIS40</strong> ITS for regulatory purposes</td>
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<td></td>
<td><strong>SIS41</strong> Interoperability - the ultimate capability for connected vehicles</td>
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<td><strong>SIS42</strong> Efficiency and safety</td>
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<tr>
<td>14.00-15.30</td>
<td><strong>ES01</strong> Traffic control using laws for pedestrian safety</td>
</tr>
<tr>
<td>16.00-17.30</td>
<td><strong>ES02</strong> Strategic and tactical urban mobility</td>
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### THURSDAY 19 JUNE

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<tr>
<td>09.00-10.00</td>
<td>Coffee Break</td>
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<tr>
<td>10.15-11.45</td>
<td><strong>SIS31</strong> Deployment of C-ITS in the Amsterdam Group and Dutch policy</td>
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<td><strong>SIS32</strong> From smart data to smart citizenship</td>
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<td><strong>SIS33</strong> Building European travel payment platforms through collaboration and transport services</td>
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<td><strong>SIS34</strong> Initiating the app - Data sharing and business ethics</td>
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<td><strong>SIS35</strong> Towards road service cooperation</td>
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<td><strong>SIS36</strong> Logistics &amp; freight transport</td>
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<td><strong>SIS37</strong> Automated driving - legal &amp; institutional aspects</td>
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<td><strong>SIS38</strong> E4 data handling</td>
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<tr>
<td>12.00-13.30</td>
<td><strong>ES01</strong> New mobility apps for consumers and businesses - making use of Open Data</td>
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<td><strong>ES02</strong> Smart transactions (ticketing, infrastructure usage, insurance, travel, parking, etc.)</td>
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<td><strong>ES03</strong> Multimodal network operation at city, region, national and international level</td>
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<td><strong>ES04</strong> Productivity for transport systems including logistics and public transport</td>
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<td><strong>ES05</strong> Towards zero emissions</td>
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<td><strong>ES06</strong> From connected to automated vehicles</td>
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**SESSION ROOMS EXHIBITION**

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<th>Internal Theatre</th>
<th>Comm Theatre</th>
<th>Cross-cutting</th>
<th>Stakeholder Workshop (SW)</th>
<th>Commercial paper (CP)</th>
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ERTICO - ITS Europe

ERTICO – ITS Europe is the network of Intelligent Transport Systems and Services stakeholders in Europe. ERTICO connects public authorities, industry players, infrastructure operators, users, national ITS associations and other organisations together. It facilitates the safe, secure, clean, efficient and comfortable mobility of people and goods in Europe through the widespread deployment of ITS. The ERTICO vision is 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.

ITS Finland

ITS Finland promotes the integration of ITS into transport systems and improves the awareness of Finnish ITS expertise. It is an active network that aims to speed up the wave of digitalization that is changing transport structures towards Mobility as a Service. ITS Finland’s members include private corporations, public agencies, and academic institutions involved in the research, development and design of Intelligent Transportation Systems. Its main task is to promote the deployment of concrete ITS services for private and corporate users. Goal is to ensure and promote Finland’s status as forerunner market that welcomes all international advanced actors. Information must be mobilized to serve the travelers and the transporters of goods. This calls for unprejudiced exploitation of information and communication technologies in the collection, processing and distribution of traffic information.

Ministry of Transport and Communications

The Finnish Ministry of Transport and Communications seeks to ensure access to transport and communications networks that are safe, effective and reasonably priced. To meet the challenges the sector faces, Finland’s new transport policy is about seeing transport as a service and ensuring that people and businesses enjoy the quality of service they require. Here the Second Generation Intelligent Strategy for Transport, which was published in 2013, provides an essential road map. The Ministry and its stakeholders have now moved into the implementation phase.

City of Helsinki

Helsinki, with already an excellent track record in Smart city evaluations, is strongly pushing forward with further development. Facing the challenge of massive 25% growth over next 1-2 decades, Helsinki is committed to utilizing every benefit ITS can offer. One of our key drivers is to be an enabler rather than service provider, a concept that is making steady progress even outside the scope of ITS services. This we are securing by providing open data & APIs, supporting the developer communities and fully deploying innovative procurement. Being the most open city in the world by having all decision-making material freely available, we are pushing to provide the best ever real-time transportation information for the developers. And next on our agenda is to ensure we put our money where our mouth is and become the world-leader in Mobility-as-a-Service. We welcome everyone big or small to join our effort!
Welcome message for

The 10th European ITS Congress 2014 - Helsinki

The Commission is very pleased to invite you to the 2014 ITS Europe Congress, hosted in the City of Helsinki.

Nowadays, the terms “smart” and “intelligent” are ubiquitous; we use smart devices, we live in smart cities, we consume energy in a more intelligent way and our transport system becomes more and more intelligent. Very promising; very challenging.

ITS applications and services are not developed and deployed for their own sake. They are meant to help us provide answers to the challenges of today and tomorrow. Intelligent transport is much more than technology: it is about better services to users, about a transport system that is more sustainable and more efficient. Being seamless, flexible and more user-friendly, intelligent transport solutions will help meet the evolving mobility needs of our society.

The vision of the 2011 White Paper, the ITS Action Plan and the ITS Directive set a policy framework for deployment and use of ITS in Europe. Research and development, standardisation, promotion and deployment will continue to be supported through both “Horizon 2020”, the EU Framework programme for research and innovation, and the Connecting Europe Facility, the EU investment programme for infrastructure.

In order to accelerate the use of innovative transport solutions and underlying technologies, it is essential to promote more efficient cooperation between stakeholders (public and private). Win-win situations of co-operation, building on the Digital Agenda for Europe, help Europe’s citizens and businesses get the most out of digital technologies. It is here that the unique mix of participants (decisions makers, technologists, researchers, experts) coming together in Helsinki will be crucial.

The ITS Europe Congress 2014 will also be an excellent opportunity to learn more about the latest trends and specific achievements in the ITS field as well as to intensify coordinated cross-border deployment. We very much look forward to seeing you in Helsinki.

Siim Kallas
Vice-President responsible for transport, European Commission

Neelie Kroes
Vice-President responsible for the Digital Agenda, European Commission

Máire Geoghegan-Quinn
Commissioner responsible for Research, Innovation and Science, European Commission
Dear ITS 2014 Delegate,

You are cordially welcome to Helsinki and to the 10th European ITS Congress. Helsinki has its roots in the sea and is often referred to as the daughter of the Baltic. Originally, the city was founded as a trade post on the northern shore of the Gulf of Finland in 1550. Since then, the sea has played a dominating role in the development of the city. Today, vast regeneration projects are carried out on former harbour areas to make the city more liveable and sustainable.

To visitors and residents alike, we wish to offer a fun and functional urban environment, where one of the most important elements is our public transport system. It is also our ambition to be a Smart City. By this, we understand the use of the latest technology to make the city services more user-oriented and easily accessible. Some of the greatest and most useful applications in my opinion have to do with public transport, such as the route planner.

Helsinki and Finland have a long and internationally acclaimed tradition in design and architecture. Many masterpieces such as the Finlandia Hall originate from the drawing board of Professor Alvar Aalto. I also warmly recommend a tour in the design district, located in the heart of Helsinki.

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Finally, I want to remind you of the historical blocks around the City Hall. This old town of Helsinki is full of great restaurants and small boutiques and includes some of the most important national monuments of Finland. The City Hall is open to the public and hosts a gallery with changing exhibitions.

I warmly welcome you to Helsinki.

Jussi Pajunen
Mayor of Helsinki

Welcome Letters

Welcome to the 10th ITS European Congress in Helsinki!

Having recently assumed the duties of Finland’s Minister of Transport I feel privileged to welcome you all to the 10th ITS European Congress, to be held in Helsinki, Finland, for the first time.

It is clear that the transport sector is going through many changes. Environmental challenges as well as decreasing resources force us to be more creative and smarter with our transport policy. We need to change with society. I believe that ITS is one of the major tools that can help us meet the challenges we are facing.

Finland wants to lead the way in the development. In Finland we have moved from just building capacity to ensuring seamless connectivity, and to user-centered and service-orientated policy. Our vision is mobility services that are flexible and as varied as the users’ needs. I hope we will have an in-depth discussion on this topic at this year’s congress, the slogan of which is "ITS in your pocket – proven solutions driving user services".

I am delighted that the Congress will be held on 16–19 June, just before the Finnish Midsummer celebrations, which is the best time of the year to visit Finland! The magic of the midnight sun is something that cannot be adequately explained. You have to experience it yourself.

See you in Helsinki!

Henna Virkkunen
Minister of Transport and Local Government

Dear ITS 2014 Delegate,

You are cordially welcome to Helsinki and to the 10th European ITS Congress. Helsinki has its roots in the sea and is often referred to as the daughter of the Baltic. Originally, the city was founded as a trade post on the northern shore of the Gulf of Finland in 1550. Since then, the sea has played a dominating role in the development of the city. Today, vast regeneration projects are carried out on former harbour areas to make the city more liveable and sustainable.

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I warmly welcome you to Helsinki.

Jussi Pajunen
Mayor of Helsinki
On behalf of ERTICO - ITS Europe and its Partners I am delighted to invite you to take part in the 10th European ITS Congress to be held in Helsinki, Finland, on 16-19 June 2014.

With the theme “ITS in your pocket – proven solutions driving user services”, the Helsinki Congress will focus on the way in which ITS solutions are rapidly moving from research and development to become widely available and easily usable consumer products and personalised services.

This emphasis on proven solutions that drive user services will be highlighted in the Exhibition and at demonstrations, where a broad and varied range of exhibitors, public administrations and ITS-related organisations will showcase mobile ITS technologies and services thus complementing and boosting what will be presented during the discussion sessions. There will also be an open innovative competition – “best new ITS apps” – for anyone to develop a new smartphone app bringing a new or unusual service to travellers.

Finns are world leaders and avant-gardists in technology, mobility, connectivity and education among other fields. Thanks to its convenient and strategic location, Finland perfectly connects Western Europe, the baltics, northern Europe, Eastern Europe and Russia. The strong ministerial and industrial support for the Congress demonstrates the country’s commitment to ITS.

Finally, in addition to what is certain to be a refreshing and fascinating Congress programme, participants will also be able to take advantage of an exciting social itinerary in the green, trendy and culture-rich surroundings of Helsinki, under the midnight sun.

I look forward to meeting with you at this unique gathering of the European ITS community.

Jean Mesqui
Supervisory Board Chairman, ERTICO – ITS Europe

On behalf of ITS Finland I take great pleasure in welcoming you to the 10th European ITS Congress in Helsinki on 16 - 19 June, 2014, at a time when the summer days are lovely and the midsummer nights are light.

Finland is world known as a leader for its expertise in technology, particularly mobility. Therefore we are extremely proud to host the 10th European ITS Congress in Helsinki, Finland. The timing is perfect to present the best innovations and practices in mobility and logistical service needs. The theme of the Congress, "ITS in your pocket" perfectly illustrates the expansion on ITS services for the everyday needs of the end-user. We want ITS services to be available for all citizens, in everyone’s pocket. Lots of new applications in the future will be based on “Open Data”. The processing and connecting of large data quantities opens opportunities for new services and businesses.

Effective and productive transport systems are a key role in society’s structures in the future. Automation is expanding everywhere, including automated vehicles wherein the driver shall become the passenger. Effective ITS services reduce emissions and will benefit the environment for future generations. The goal is zero emissions and we shall persist with it.

Among important topics of discussion will be new transport payment systems, smart transactions, multimodal network operations and as we are in Finland, we shall not forget weather conditions such as snow and ice. All this is made possible by good cooperation between government authorities, researchers and businesses. Boundaries must be broken and the ITS family must work closely together to achieve results. An exceptional public-private partnership is the principle focus on ITS Finland. This Helsinki Congress is a result of that.

I look forward to this high level ITS Congress with all of you and extend a warm welcome to the “Land of the Midnight Sun” and the City of Helsinki!!

Karri Salminen
Chairman of the Board, ITS Finland
The 3rd week of June is a special week for people living in the northern part of Europe. It has many names, like the White Nights, St John’s Feast Day, the Summer Solstice or the Midsummer. During that week the sun remains visible for 24 hours north of the Arctic Circle and although not visible for whole 24 hours in Helsinki, the twilight is only few hours. For the Finns, it is a reason to celebrate survival from the long and dark winter and to welcome the summer.

During that week in 2014, Helsinki is hosting the 10th European ITS Congress, which is another good reason to celebrate. Like the sun during the Midsummer, ITS is visible in our lives 24 hours each day, from traffic lights to traffic control.

Consumers use ITS through applications in a Smartphone. Those applications make our travels easier and greener, they guide us and show what is around us. They do it everywhere, on the roads, in the streets and inside buildings. In 2014, they do it in Helsinki. They guide us to Congress, help to navigate in Exhibition and make use of public transport more convenient.

In Helsinki we will have an ”ITS in your pocket” contest to encourage a search for more ITS enabled innovations. The competition will have a special prize – Nokia and AppCampus will award the best ITS enabled application on a Lumia Smartphone with €50,000.

On behalf of HERE, I welcome all of you to Helsinki. Not only to enjoy the high-level Congress and presentations, but also to experiment with the best ITS applications and to feel the magic of the summer solstice.

Looking forward to see many of you in Helsinki!

Mika Rytkönen
Head of Industry Relations, HERE
We are pleased to invite you to Helsinki to the 10th European Intelligent Transport Systems Congress and Exhibition.

In addition to enjoying our blooming capital at the peak of the summer, you will have a chance to get first-hand experience about our smart transport system.

The Finnish Transport Agency, the Finnish Transport Safety Agency Trafì and the Finnish Meteorological Institute have a key role in implementing the new Finnish transport policy. One of the key drivers behind the policy reform has been optimal utilization of information and communication technology to increase the service capability of the traffic system and the productivity of the whole transport network. The policy aims at integrating ITS into all modes of transport. “ITS in your pocket” will truly be a reality for us in the near future in many parts of the society.

The implementation of the new Finnish transport policy would not be possible without strong cross-administrative co-operation. Finland is doing pioneering work also in this field, of which the tight co-operation between the Finnish Transport Agency, the Finnish Transport Safety Agency Trafì and the Finnish Meteorological Institute is a good example.

The Finnish Transport Agency strives to generate information, tools and operating models by which it can improve the safe, efficient and sustainable functioning of the traffic system as a whole. The emphasis is shifting from planning and building roads, railways and waterways to providing journeys and transport at the service level that is expected by the users, using a variety of network operation tools.

The Finnish Transport Safety Agency Trafì wants to motivate individuals and enterprises to make responsible decisions everywhere in traffic. Trafì believes that intelligent transport solutions help us make traffic safer and friendlier for the environment, yet at the same time attractive and economical for the consumers.

The Finnish transport system is faced with extreme weather conditions over half a year. We can proudly say that we have unique expertise about the weather and winter maintenance in all traffic modes, resulting in state of the art solutions for maritime transport, aviation, public transport, pedestrians and road transport. The Finnish Meteorological Institute invites you to explore these solutions that combine the best practices of weather information and ITS.

We are convinced that you will find the Congress themes useful and inspiring and hope that your stay in Helsinki will be a pleasant one.
The theme of the 10th ITS European Congress is "ITS in your pocket – proven solutions driving user services".

The ITS Congress & Exhibition is one of Europe’s largest event in Intelligent Transport Systems and Services, the key topics of this year Congress will be sustainability, multimodality, innovation and focus on consumers.

As a unique platform dedicated to the trends, achievements and opportunities in European markets, the Congress annually brings together a wealth of decision makers at the highest level, thought leaders, technologists, researchers and a wide range of related experts. It distinguishes itself by the high number of participants, the great diversity of market segments, and the unparalleled quality of its programme.

**Congress Format**

**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 specific topics in greater detail than a conventional paper session to offer fresh perspectives and insight. Sessions that appear to be commercial sales pitches for a given product or company will not be permitted as Special Interest Sessions.

**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.
Interactive Sessions

Interactive Sessions have proved to be very popular for facilitating information exchange on contentious subjects where the extra contact time and debate format permit vigorous examination of all aspects of a topic. Papers selected for an Interactive Session will be organised in a two stage, workshop-style format with an extended time frame to enable presenters to reach and exchange with appropriate audiences of interested delegates.

The first stage is similar to a regular presentation session where technical or scientific papers covering the same subjects or processes are grouped together in order to facilitate discussion on that topic. There will normally be of 7/8 presentations in each session of 45 minutes with a maximum of 3 slides with no time for questions and answers. This stage is intended to give the audience just a flavour of what the authors have to present. The second 45 minutes stage immediately follows the presentations and is an opportunity for extended discussions between speakers, between speakers and specialists in the audience, or both as either group debates or one-to-one exchanges. Each speaker will have a screen available to show additional material.

This year the Interactive Sessions will take place in a dedicated area in the Exhibition so to encourage contacts between paper authors and exhibitors.

Commercial Theatre Sessions

The Commercial Theatre, located in the centre of the Exhibition area, will house 3 different types of activity: Commercial Paper Sessions, Special Interest Sessions in the ‘Industry Insight’ Stream, and Commercial Presentation Sessions. Any registered attendee can attend any Session taking place in the Commercial Theatre. These Sessions present near-market material activity aimed at generating or improving a specific product, device or idea for the market, with a particularly strong commercial or deployment flavour. All Sessions are presented to a more commercial audience than usual, specifically targeted to exhibition participants and visitors, in an interactive format. All these Sessions are listed in the Congress programme.

Commercial Paper Sessions

These are presentations of Technical or/and Scientific Papers judged by reviewers to be near-market rather than pre-market, or where authors have specifically requested the specialised Commercial Theatre venue. 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. Each Session will last between 60 - 90 minutes. Papers have been reviewed grouped by the European Programme Committee.

Special Interest Sessions in the ‘Industry Insight’ Stream

These are Special Interest Sessions with a particularly strong commercial or deployment flavour, each session lasting between 60-90 minutes. SISs are tailor-made meetings designed to create an opportunity to explore specific topics in greater detail than a conventional paper session and so offer fresh perspectives and insight. The sessions will follow an interactive debate/discussion format with full audience engagement rather than the old-style series of PowerPoint presentations. Sessions have been reviewed and accepted by the European Programme Committee.

Commercial Presentation Sessions

15 minute Commercial Presentations will take place during coffee and lunch breaks. They are an opportunity for Exhibitors and Sponsors to provide you with more information about their commercial products and services. For more information please contact Sofie Hemeryck (sponsor@itsineurope.com).
Plenary Sessions

Monday 16 June 2014

Opening Day of Helsinki 2014

You and your accompanying person(s) are cordially invited to attend the Opening Day of Helsinki 2014 on Monday 16 June 2014.

Opening Ceremony

The Opening Ceremony will include the official welcome by Ms Henna Virkkunen, Minister of Transport and Local Government, Mr Jean Mesqui, Chairman of ERTICO Supervisory Board and key inspiring speech by Chief Business Officer Mr. Tuomas Routo, Reaktor Innovations Oy, Finland.

App Awarding Ceremony

ITS in your pocket - application competition for best European traffic apps will award the winners in Apps Awarding Ceremony at 15:30 with the participation of Mr Siim Kallas, Vice-President and Commissioner for transport, European Commission and Formula 1 driver Valtteri Bottas. Winners are chosen from three main categories: 1. Boost the use of multimodal transportation, 2. Sustain urban mobility and 3. "Out-of-the-box" innovations. Special prize awards will be given in the following categories: best Windows Phone OS application, best application utilizing open data from partner cities and two special prizes for TEKES challenges: "The costs of municipality transport" and "The cognitive radio technologies in smart traffic".

Plenary Session - **PL1**

Open Data enabling new mobility apps

**Description**

New technologies and digital devices with "anytime anywhere" access to content are supporting a new industry devising personalised and innovative apps for all classes of transport users. These new entrants into the mobility supply chain are pressing for the opening-up of data resources where availability is currently limited. However many Governments are uncomfortable with this deregulated world despite the Digital Agenda for Europe and the European Transport Policy, which both promote Open Data, and seek to apply conditions on data provision for unspecified policy requirements. This is creating a paradox – the best way to achieve this deregulated environment may well be agreement on some form of institutional framework. The framework would be based on provision of data without any conditions, restrictions or warranties but could also address issues such as privacy, quality and format of data, liability, reliability, secondary use, transparency, and accountability. This Plenary will explore how this key subject might be developed and focus on the transport application areas likely to derive most benefit.

**Master of Ceremony**

- Anna Sorainen, Managing Director, Ground Communications, Finland

**Invited speakers**

- Zoran Stančič, Deputy Director General, DG CONNECT, European Commission
- Hannu Penttilä, Vice Mayor, City of Helsinki, Finland
- Ogi Redzic, Vice-President, Connected Driving, HERE, United States
- Nick Cohn, Senior Traffic and Transport Expert, Travel Information Unit, TomTom, The Netherlands

The Opening Day will finish by the Opening of the Exhibition at 16:30 and the Welcome Reception at the City Hall of Helsinki at 18:30.

On Monday 16 June at 12:00-19:00, the European project iMobility Challenge will run an open ecodriving competition day where members of the public can come and test for themselves latest intelligent vehicle technologies. The professional Formula 1 driver, Valtteri Bottas, will set a score based on his eco-driving abilities that, during the all length of the Congress, participants will attempt to beat. Please refer to page 76 for more information on the ecodriving competition at the European ITS Congress in Helsinki.
Plenary Session - PL2
Enabling wider markets for Mobility as a Service

Description
Several sectors, telecoms perhaps being the most known, have already gone through a revolution with the emergence of digitalisation, giving rise to the Internet of Things. This has resulted in a generation of digital natives who want personalised, convenient and sustainable services offered to them. Simultaneously the public sector is seeking for ways to increase efficiency and sustainability in their transport policies and investment plans whilst their budgets are decreasing. A paradigm shift is dawning on the transport sector. To answer the needs of the modern customer as well as to meet the capacity shortages and sustainability demands of today’s transport, Mobility as a Service is emerging. Mobility as a Service can provide us with seamless mobility, fulfilling our individual mobility needs conveniently, across transport modes and across borders. ITS solutions will be a major tool in realising this revolutionary change in transport. However, to make Mobility as a Service a reality, the creation of the right service ecosystem is needed. In order to obtain a motivating ecosystem for Mobility as a Service, and thus result in a flourishing global market, the public and private sectors will need to cooperate with and focus on the users.

Master of Ceremony
• Anna Sorainen, Managing Director, Ground Communications, Finland

Invited speakers
• Minna Kivimäki, Director General, Transport Policy Department, Ministry of Transport and Communications, Finland
• Joao Aguiar Machado, Director General, DG MOVE, European Commission
• Edward Jung, Founder & Chief Technology Officer, Intellectual Ventures, United States
• Rima Qureshi, Member of the Executive Leadership Team, Ericsson, Sweden
• Erik Jonnaert, Secretary General, European Automobile Manufacturers’ Association - ACEA

Congress Conclusion Session
Join your colleagues by taking part in those Sessions which will captivate you by summarising the key moments that made the 10th ITS European Congress & Exhibition unique! The Congress Conclusion Session and Closing Ceremony integrate a one-hour Plenary Session PL3 on ‘Integrators for future mobility services’ from 12:10-13:10. Professor Eric Sampson, Chief Rapporteur will present the Congress conclusions based on inputs prepared by a team of Rapporteurs.
Plenary Session - PL3
Integrators for future mobility services

Description
Transport networks ranging in scale from small local to complex international are experiencing a common set of pressures. Both users and operators want to see enhanced safety, reduced environmental impact, better modal connections, increased productivity and reduced cost. At the same time resources and physical space – especially in cities – are limited thereby restricting the introduction of new infrastructure or services. The only way to deliver gains in all these areas is to be ‘smarter’ – to find better ways to use what we have and to move towards a different transport services supply model where we purchase ‘mobility’. This Plenary will explore the development of a more integrated, intermodal approach for better coordination and optimal usage of the available capacity. The session will examine new ways to manage networks with particular attention to integrating mode-specific operators at local, regional and national level and will look for the common lessons from mode-specific practices for strategy, structure, and operations culture.

Master of Ceremony
• Laurent Meillaud, French Automotive Journalist and Consultant, France

Invited speakers
• Fotis Karamitsos, Deputy Director General, DG MOVE, European Commission
• Tiina Tuurnala, Director-General, Traffic and Data, Finnish Transport Agency - FTA, Finland
• Svend Tøfting, Head of the ITS Sector, North Denmark Region, Denmark and ERTICO Supervisory Board Member
• Nathalie Delattre, Deputy Mayor, City Hall of Bordeaux, France
• Tomas Chlebnican, Chief Operating Officer, CHAPS, Czech Republic

Closing Ceremony
This Session will include among other matters: official closing speeches, the highlights video, best Paper awards, awards to the winning teams of the 24 hour innovation Student Competition, video presentations and invitations by Jim Barbaresso, Chairman of the Organising Committee to the 21st ITS World Congress, Detroit 2014, and by Nathalie Delattre, Deputy Mayor, City Hall of Bordeaux to the 22nd ITS World Congress, Bordeaux 2015.
**ES01 Roaming ITS services**

**Description**
It is common today for ITS services and dynamic information to be accessed by consumers at regional or country level using "always on" nomadic or in-vehicle platforms. This provides users the possibility of receiving real-time and personalised updates for any modes along the complete trip while in turn generating valuable floating traveller data. With ITS in your pocket the analogy with the world of mobile networks is inevitable and similar challenges must be addressed. This executive session will review existing mobile network based solutions, trends and opportunities and discuss the need for European wide cross-border interoperability and the role of governments.

**Moderator**
- Juhani Jääskeläinen, ITS Adviser, Finland

**Speakers**
- Dirk John, Chief Executive Officer of Road and City Mobility, Siemens, Germany
- Jacob Bangsgaard, Director General, FIA Region I, Belgium
- Marc Neyrand, CEO, Sanef ITS Operations, Ireland
- Markus Lennartz, Vice President Global Accounts / International Business, T-Systems International, Germany

**ES02 Towards zero emissions**

**Description**
Despite major advancements over the past decade, plug-in hybrid and full electric vehicles, smart grids, eco-driving, navigation and real-time traffic information, traffic management etc maintaining mobility while reducing emissions by 60% remains is still a major challenge. Clearly, isolated improvements cannot deliver the step change needed. This session will identify the most relevant technologies along with the major threats and limitations. It will also consider the organisational framework needed to consolidate these disparate components into an integrated approach through cooperative ITS to help progress towards zero emission mobility.

**Moderator**
- Jean-François Janin, ITS Task Force Manager, French Ministry of Transport, France

**Speakers**
- Wolfgang Steiger, Director Future Technologies, Volkswagen AG, Germany
- Klaas Rozema, Chief Technology Officer, Imtech, The Netherlands
- Magnus Bingle, Deputy Director Chalmers Area of Advance in Transport, Chalmers University of Technology, Sweden
- Liam Breslin Head of the Surface Transport Unit, Transport Directorate DG RTD, European Commission
- Juha Kenraali, Head of Department, Finnish Transport Safety Agency –Trafi, Finland
ES03  Making money from ITS

Description
The business case for ITS varies internationally according to societal and institutional frameworks. However, it has proved consistently hard to calculate returns in terms of hard cash. A societal or environmental benefit case for ITS is easier to make. But there are examples from across the world of actual money being made by selling and using ITS. What is the secret of these successes? Good procurement processes, sensible institutional and legal frameworks, realistic time scales, technical interoperability, institutional integration, or a good old-fashioned assessment of what the customer actually wants? This executive session will present case studies which provide evidence of technical and financial success.

Moderator
- Theo Quick, Director, Global Transport, Post & Logistics Industry, CGI, United Kingdom

Speakers
- Josef Czako, Vice President, Kapsch TrafficCom AG, Austria
- Wilfried Klassmann, CEO, CETECOM, Germany
- Kimmo Ylisiurunen, CEO, Infotripla Oy, Finland
- Cees de Wijs, CEO, SWARCO AG, Austria
- Richard Harris, Solution Director, International Transportation and Government, Xerox, UK

ES04  From connected to automated vehicles

Description
Automated driving is not science fiction, it is here today in many guises but not fully integrated into a single vehicle yet. ITS is making our vehicles smarter, and many of the ADAS functions in the car are on the borderline of automation and are entering the market starting from the high-end vehicles. Investing in research and innovation in automation is a necessity from the point of view of our transport policy targets, for ensuring the competitiveness of European automotive industry in this new emerging area. Automation has the potential to significantly improve the safety and efficiency of mobility on European roads, and as a logical development following our investment in in-vehicle systems and Cooperative Systems. Europe has the lead in cooperative systems, and we need to build on this lead to assure a strong position in the new generation of highly automated vehicles, whilst addressing the clear challenges of usability, public acceptance and comprehension, roll-out strategies in a mixed, smart and dumb vehicle environment and the issues regarding operation on public roads. This topic will address the role Automation will play in realising the societal challenges and policy objectives for mobility and transport. Applications like platooning, temporary auto-pilot, hazard detection and intelligent lane will be addressed, as well the non-technical issues like HMI, legal issues, liability and privacy.

Moderator
- Hermann Meyer, CEO, ERTICO - ITS Europe

Speakers
- Angelos Amditis, Research Director, Institute of Communication and Computer Systems, ICCS, Greece
- Frans op de Beek, Principal Advisor traffic management, Rijkswaterstaat, The Netherlands
- Floris van de Klashorts, Vice President Connected Driving, HERE, The Netherlands
- Ralf Lenninger, Senior Vice President, Continental Automotive GmbH, Germany
- Kenneth Leonard, Director, ITS Joint Program Office, RITA, United States
- Takahiko Uchimura, Vice President ITS Japan Automated Driving, Japan
- Magda Kopczynska, Director, DG MOVE, European Commission
ES05  Productivity of transport and logistics systems

Description
The creation of a reliable, robust, flexible, sustainable and comprehensive system for the movement of people and goods in Europe is a challenge. The continuous interaction between supply and demand through space and time create dilemmas for users and operators, both public and private, and also outside the mobility sector. A holistic perspective is needed for productive transport and logistics systems. This requires an integrated view on a wide range of topics such as passenger mobility, the supply chains and flows of goods, related passenger, freight and traffic flows, land use planning, policy development, technological development, and economic, legal, and financial issues. Moreover, proper understanding of the behaviour and policies of individuals, companies and governments is needed. An overarching concept for logistics and mobility may significantly contribute to a sustainable intelligent transport system in such a way that other sectors and the European economy as a whole will benefit.

Moderator
• Michael Sena, President, Michael L. Sena Consulting AB, Sweden

Speakers
• Michael Nielsen, General Delegate to the EU, IRU, Belgium
• Bernard Favre, ITS consultant, France
• Hermes Redi, CEO, THETIS, Italy
• Chris Bax, Managing Director intelligent traffic management division, Cubic ITMS, UK
• Florian Krietsch, Project Manager, PTV, Germany

ES06  Trans-national cooperation on ITS

Description
Different countries in EU and all over in the world have many common interests in the field of transport. The value of cooperation in transport is clear: transport flows and travelling do not stop at the country borders and the challenge for the future is to make traffic seamless and smooth. Regular exchanges of persons and goods between countries globally and between regions are continuously increasing. ITS will be utilized as a tool and a stimulator integrating the transport systems, travel and logistics chains and modern services. However, ultimate cooperation, networking and sharing of experiences is necessary and one of the key enablers towards large scale ITS implementation. Strategic approaches and partnerships are elements in order to be able to deliver quality, safe, efficient, and informed cross border mobility inside EU and its regions but especially also between the EU and other continents and countries including Russia and its neighbours. Multimodal and integrated transport services should be available and smart transport corridor systems with smooth border crossings developed.

This executive session will provide an opportunity to share experiences, illustrate achieved results and discuss required further activities in trans-national ITS cooperation and transport system development e.g. smart transport corridors.

Moderator
• Matti Roine, CEO, MH Roine Consulting, Finland

Speakers
• Risto Murto, Director of Unit, Ministry of Transport and Communications, Finland
• Kenneth M. Leonard, Director, ITS Joint Program Office, RITA, United States
• Representative from Russia
• Marko Jandrisits, ASFINAG, Amsterdam Group, Austria
• Representative from ITS China
ES07  Smart transactions, ticketing, infrastructure, insurance, travel, parking, etc.

Description
Aviation has pioneered the move from analogue ticketing and boarding passes to digital and we mostly fly using an electronic record authenticated by a passport. Storing the entitlement to travel, a ‘ticket’ in the memory chip of a contact-less payment card, smartphone etc, rather than printed paper, is rapidly being adopted for public transport. Advantages include reduced fraud, improved operational data, simplified payment, more flexible pricing and reduced personal hassle. There are potentially larger gains if we can interlink with other transport services such as vehicle insurance, parking, car sharing, bike hire to form a seamless system covering information, ticketing and payment. This session will explore the path to an integrated Smart European Transport World.

Moderator
• Eric Sampson, Senior Programme Adviser, ERTICO - ITS Europe

Speakers
• Jo Van Onsem, Group President International Transportation and Government, Xerox Services, Germany
• Jacques Amselem, CEO, Allianz Telematics, Germany
• Marcel Visser, Business Development Director Automotive Segment, Gemalto, The Netherlands
• Ilkka Kankkunen, Managing Director, TVV lippu- ja maksujärjestelämä Oy, Finland
• Knut Evensen, Chief Technologist, Q-Free, Norway

ES08  ITS dealing with extreme weather conditions

Description
Facilitating winter mobility requires snow ploughs, salt and sand, but this necessary maintenance can be enhanced with ICT tools. Weather related traffic management, information and warning services as well as driver support and cooperative systems, can considerably improve winter mobility. New weather and road surface monitoring with extended floating car data provides a valuable basis for innovative ITS services. The rapid increase in connected vehicles will improve the availability and quality of such detailed data covering all road networks. New, spatially more detailed weather forecast models provide additional benefits for the management of traffic, mobility and infrastructure in all transport modes. This Session will review the powerful tools now available to support both travellers and transport service providers.

Moderator
• Raimo Tapio, Vice Director General, Finnish Transport Agency-FTA, Finland

Speakers
• Josef Fiala, Managing Director, Asfinag Service Ltd., Austria
• Heini Noronen-Juhola, Vice President Aviation & Safety, Finavia - Helsinki Airport, Finland
• Kevin R. Petty, Chief Science Officer, Vaisala Inc., United States
• Jussi Kaurola, Director Weather and Safety, Finnish Meteorological Institute, Finland
• Stine Mikalsen, Principal Engineer and Meteorologist, Norwegian Public Roads Administration, Norway
**SIS 01  Future roadmaps and EU’s research and innovation programming**

**Description**
This session focuses on describing thorough and mature research and innovation agendas and roadmaps on topics related to safety, clean and efficient multimodal mobility, connected and automated driving. These topics have been defined collectively by main stakeholder groups and are linked with the European Commission’s processes to develop work programmes within the H2020 framework programme. The session focuses on describing R&I agendas and roadmaps developed by: ERTRAC, FOSTER ROAD project, PROS project, FISITA 2014 outcomes, DECOMOBIL project, iMobility Forum and EU’s research and innovation programming. This session’s outcomes will be very useful to the audience in the definition of the next work programmes of the Horizon 2020 and will give a flavour of the future of these topics.

**Organiser**
- Lina Konstantinopoulou, ERTICO - ITS Europe

**Moderator**
- Lina Konstantinopoulou, ERTICO - ITS Europe

**Speakers**
- Olaf Opdencamp, TNO, The Netherlands
- Jac Wismans, Chalmers University of Technology, Sweden
- Wolfgang Hoefs, DG CONNECT, European Commission
- Peter Urban, Forschungsgesellschaft Kraftfahrwesen mbH Aachen - FKA, Germany
- Alessandro Coda, EUCAR, Belgium
- Alexander Holleis, AVL List GmbH, Austria
- Annie Pauzié, IFSTTAR/LESCOT, France

**SIS 02  The future of V2X: Will V2Cloud/V2I leapfrog V2V?**

**Description**
While the ITS industry has promoted the safety benefits of V2V and V2I systems for years, the economics of implementing these solutions appear unrealistic to many regional governments, automakers and consumers. Meanwhile, new technologies related to autonomous driving, ADAS and other advanced vehicle sensors, 4G LTE, and smartphone apps show similar promise at significantly less cost. Is V2V doomed to fail? Should a hybrid approach become the new focus? A panel of experts representing regional transport agencies, automakers, and app providers and will discuss the future of V2X.

**Organiser**
- Scott Sedlik, INRIX, United States

**Moderator**
- Scott Sedlik, INRIX, United States

**Speakers**
- Frank Foersterling, Continental Automotive GmbH, Germany
- Phillip Proctor, Highways Agency, United Kingdom
- Frans op de Beek, Ministry of Infrastructure and the Environment - Rijkswaterstaat, The Netherlands
- Bernd Datler, ASFINAG, Austria
- Derek Williams, Toyota Motor Europe, Belgium
**SIS 03  Lessons from over 10 years of public transport open data**

**Description**
With over a decade of open data and 30 years of public transport experience this session will give insight from the different stakeholders on today’s achievements and tomorrow’s ambitions in the field of public transport open data. It will highlight the challenges of citizen engagement, privacy, reliability and accountability of the data. Hear how cities have engaged with their citizens to get updates to changes to the mapping as well as providing open data for new value added services and what the future holds such as opportunities for low-emission journey planning.

**Organiser**
• Theo Quick, CGI, United Kingdom

**Moderator**
• Theo Quick, CGI, United Kingdom

**Speakers**
• Kerkko Vanhanen, Helsinki Region Transport - HSL, Finland
• Martin Johansson, The Finnish Transport Agency - FTA, Finland
• Mika Vuorio, CGI, Finland
• Nick Illsley, Transport Direct, United Kingdom

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**SIS 04  Europe-wide service platforms - towards an ‘Internet of mobility’**

**Description**
Connected travel and transport services are typically proprietary and only a few offer Europe-wide coverage or interoperability. A simpler approach is needed for travellers to find and consume mobility services; for content and service providers to enhance their products and extend their customer base. Representatives from transport and mobility service platforms, MOBINET, Simpli-City, MobiCloud, Green eMotion, TEAM, the German Mobility data marketplace and the Dutch Data Warehouse for Traffic Information will explore commercial, legal and organisational challenges for the sustainable deployment and operation of mobility marketplaces benefiting both users and providers.

**Organiser**
• Paul Kompfner, ERTICO - ITS Europe

**Moderator**
• Paul Kompfner, ERTICO - ITS Europe

**Speakers**
• Stefan Schulte, Vienna University of Technology, Austria
• Luigi Telesca, eXrade s.r.l., Italy
• Silvio Weeren, eMI3 Chairman, IBM, Germany
• Lutz Rittershaus, Bundesanstalt für Straßenwesen, Germany
• Ilja Radusch, Fraunhofer FOKUS, Germany
• Olaf Vroom, National Data Warehouse for Traffic Information, The Netherlands
**SIS 05  ITS for energy efficiency**

**Description**
The EC targets the reduction of transport CO₂ emissions by 60% from 1990’s levels by 2050. The transport sector contributes with 24% to the total CO₂ emission in the EU, from which 17% is generated by road transportation. ITS can make a significant contribution to the reduction of CO₂ emission if successfully deployed. Innovative ITS systems and services are already at the basis of significant improvement of vehicle energy management. This Session will present the different contribution of ITS measures for reducing CO₂ emission and discuss with the audience a possible rewarding process for deploying them.

**Organiser**
- Jean-Charles Pandazis, ERTICO - ITS Europe

**Moderator**
- Jean-Charles Pandazis, ERTICO - ITS Europe

**Speakers**
- Jaap Vreesvijk, Imtech Traffic & Infra, The Netherlands
- Ahmed Nasr, HERE, Belgium
- Daniel Zackrisson, Volvo, Sweden
- Wolfgang Hoefs, DG CONNECT, European Commission
- Marcia Pincus, US Department of Transportation, United States

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**SIS 06  Creating a network of ITS test beds: Why and how?**

**Description**
ITS require testing before deployment. Test beds are now mushrooming across Europe, eager to be the last validation step before public and business deployment of innovations. What are the common factors between them and what could be the added value of clustering ITS test beds? The objective of this session will be to hear what the current test beds are planning to do, what role the public authorities are playing, and how a cooperation at European level would be beneficial.

**Organiser**
- Mika Kulmala, City of Tampere, Finland

**Moderator**
- Paul Kompfner, ERTICO - ITS Europe

**Speakers**
- Mika Kulmala, City of Tampere, Finland
- Gert Blom, City of Helmond, The Netherlands
- Chris Reeves, MIRA Ltd, United Kingdom
- Svend Tafting, North Denmark Region, Denmark
- Daniel Handke, City of Frankfurt am Main, Germany
- Wil Botman, Royal Dutch Touring Club - ANWB, The Netherlands
- Nino Zambara, DG CONNECT, European Commission
**SIS 07  PIARC RNO-ITS web resource: A new tool for ITS professionals**

**Description**

The PIARC RNO-ITS Web Resource team, funded by the US DOT and managed by ITS America will share its progress on revamping the World Road Association’s, PIARC Handbook on ITS into a web-based resource for students and professionals. This new resource creates an authoritative source on a diverse range of ITS topics with an international perspective that takes account of the needs of countries with transitioning economies. The resource with multi-media content and case studies will cover topics including, but not limited to benefits of ITS, enabling technologies, traveller support, passenger transport, freight and commercial services, safety, evaluation, strategic planning, safety, ITS architecture, and deployment.

**Organiser**

- Keith Keen, PIARC Technical Committee on Network Operations, United Kingdom

**Moderator**

- Keith Keen, PIARC Technical Committee on Network Operations, United Kingdom

**Speakers**

- John Miles, PIARC RNO-ITS Web Resource, United Kingdom
- Petteri Portaankorva, PIARC Technical Committee and ITS Finland, Finland
- Stig Franzen, Chalmers University of Technology, Sweden
- Muna Hamdi, iMobility: Future Vision (IMFV) collaboration Group, United Kingdom

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**SIS 08  Towards vehicle and road automation**

**Description**

Research activities on vehicle and road automation have significantly increased over the past few years. This session will give the possibility of discussing the current relevant progress on different areas for a successful and sustainable deployment of vehicle and road automation systems, addressing the activity of the Trilateral EU-US-JPN WG, iMobility Forum Automation WG and regulatory and liability aspects. The invited speakers will discuss some activities of EC-founded projects, CityMobil2, iGAMES for and COMPANION and an overview of the national plans will be offered.

**Organiser**

- Davide Brizzolara, ERTICO - ITS Europe

**Moderator**

- Maxime Flament, ERTICO - ITS Europe

**Speakers**

- Maarten Oonk, TNO, The Netherlands
- Alvaro Arrue, IDIADA, Spain
- Jane Lappin, US Department of Transportation, United States
- Sami Mynttinen, TRAFI, Finland
- Niclas Nilsson, Swedish Transport Agency, Sweden
SIS 09  Towards deployment of cooperative systems

Description
Cooperative systems have been piloted for many years with successful results. However, scaling of cooperative systems is less successful due to a complex set of technical, organisational and legal issues. In this special interest session we will address these issues and present ways of solving these so that scaling will be more successful. Business architectural thinking is important as well as cooperation in the triple helix of industry, road operators and academia, as we have organised in the Netherlands at DITCM innovations, Dutch Integrated Test site for Cooperative Mobility. The invited speakers will introduce these aspects and challenge the audience in their view on scaling and deployment of cooperative systems. The session will be a combination of formal presentations and audience engagement by a question and answer discussion with the presenters.

Organiser
• Ben Rutten, TU Eindhoven / DITCM, The Netherlands

Moderator
• Ben Rutten, TU Eindhoven / DITCM, The Netherlands

Speakers
• Paul Potters, Cachetlot, The Netherlands
• Horst Wieker, HTW Saarland, Germany
• Marja van Strien, Ministry of Infrastructure and the Environment - Rijkswaterstaat, The Netherlands
• Igor Passchier, TNO, The Netherlands
• Ben Rutten, TU Eindhoven / DITCM, The Netherlands

SIS 10  Next generation ITS professionals

Description
This session will communicate best practice in recruiting and retaining young entrants into employment in the ITS sector. Many countries are suffering from a skills shortage in the ITS area and it is essential to establish the most effective ways of attracting and retaining the brightest, most innovative young people into ITS. The session panel will comprise people with many years of deep experience of how to tackle this issue successfully. The invited moderator will lead an open discussion involving both panelists and audience, to establish current best practice.

Organiser
• Jennie Martin, ITS United Kingdom, United Kingdom

Moderator
• Alan Stevens, Transport Research Laboratory, United Kingdom

Speakers
• John Davis, ITS Ireland, Ireland
• Fernando Zubillaga, Basque ITS Cluster, Spain
• Sampo Hietanen, ITS Finland, Finland
• Jan Lundgren, University of Linkoping, Sweden
• Liisa Kauppi, The Finnish Transport Agency - FTA, Finland
SIS 11  Innovative connection concept for logistics and supply chain management

Description
Logistics stakeholders are under increased pressure to guarantee reliable real-time information exchange. A vast amount of technologies are already available, but these are “island applications” and missing the opportunity to optimise the performance of their cooperation. This session aims to show the benefits of merging two worlds: logistics and cooperative mobility services. The aim is to demonstrate the exchange of information in a secure and controlled way in currently existing freight and transport systems and services, to enhance the mobility of goods in the field of urban mobility and city logistics.

Organiser
• Jens Schumacher, Vorarlberg University of Applied Sciences, Austria

Moderator
• Anita Toni, ERTICO - ITS Europe

Speakers
• Stig Wiklund, Unilever, The Netherlands
• Paolo Paganelli, Bluegreen Strategy srl, Italy
• German Herrero, ATOS, Spain
• Erik Cornelisse, CGI, The Netherlands
• Evengelos Mitsakis, Centre for Research and Technology - CERTH, Greece

Room 101 C

Wednesday 18 June 2014
09:00 - 10:30

SIS 12  International experience sharing with open standards

Description
Traffic management increasingly requires the integration of many different ITS systems. A key role of open standards is to reduce the risks this creates. But there are many different standards approaches: UTMC in the United Kingdom, OCA in Germany, and ARKTRANS in Norway all build on Europe’s DATEX in different ways. Globally there are many other standards frameworks, from general IT to highly transport specific. This session compares open standards approaches in several different countries: exploring where they have been useful, how the experience differs, what opportunities exist for further harmonisation.

Organiser
• Mark Cartwright, UTMC Ltd, United Kingdom

Moderator
• Mark Cartwright, UTMC Ltd, United Kingdom

Speakers
• Rob Macdonald, Peter Brett Associates, United Kingdom
• Suku Phull, Department for Transport - DfT, United Kingdom
• Hanfried Albrecht, OCA eV, Germany, Austria, Switzerland
• Vidal Melo, University of Sao Paulo, Brazil
• Hans Westerheim, SINTEF, Norway
• Eduardo Dias, University of Sao Paulo, Brazil
• David Barta, Centrum Dopravního Vyzkumu, Czech Republic
• Alexio Picco, Circleroute, Italy

Room 101 D

Wednesday 18 June 2014
09:00 - 10:30
**SIS 13** GNSS positioning quality for successful ITS

**Description**
GNSS have a significant potential in the development of ITS. However, the current lack of a pan-European certification process underpinned by agreed standards is impeding the realisation of the expected benefits. The SaPPART COST Action has been launched to address the still open issues related to GNSS performances assessment. The main goal of the session is to present the Action and to demonstrate the need for coordinated work between the main stakeholders in ITS and GNSS in order to define appropriate standards in vehicle positioning for ITS.

**Organiser**
• François Peyret, IFSTTAR, France

**Moderator**
• Pierre-Yves Gillieron, EPFL - TOPO Laboratory, Switzerland

**Speakers**
• François Peyret, IFSTTAR, France
• Laura Ruotsalainen, Finnish Geodetic Institute, Finland
• Florin Nemtanu, University of Bucharest, Romania
• Robin Schubert, BASELABS GmbH, Germany

**SIS 14** TPEG based traffic services and cooperative ITS: A winning team

**Description**
With the advent vehicle-to-vehicle or vehicle-to-roadside communication, a new dimension is added to the established traffic information services based on RDS-TMC or TPEG. While addressing somewhat different driver needs, geographic coverage areas and time horizons, both approaches have much in common and complement each other nicely when combined properly. This Special Interest Session will address several technical and business related topics in this arena and attempt to stimulate a discussion of how to best utilise the synergies between both approaches for the benefit of the driver.

**Organiser**
• Stéphanie Chaufton, Traveller Services Information Association - TISA

**Moderator**
• Matthias Unbehaun, Traveller Services Information Association - TISA

**Speakers**
• Torsten Geissler, BAST, Germany
• Andreas Erwig, TomTom, Germany
• Frank Foersterling, Continental Automotive GmbH, Germany
• Fabio Pressi, Infoblu, Italy
• Andrew Nash, Mediamodel (V-Traffic), France
• Olaf Meng, Garmin, Germany
• Scott Sedlik, INRIX, USA
SIS 15  Increasing confidence in electro-mobility

Description
Electric Vehicles, EV are introduced on the market and still represent a niche market dominated by the limited range of EVs, the low level of charging points and the lack of interoperability of services. This Special Interest Session will focus on lessons learned from pre-deployment initiatives in Europe. It will present concrete examples implemented in selected pilots rolling out the usage of EVs. Finally, interoperability will be addressed by the eMI3 platform and the FABRIC IP will give an outlook in the future with inductive charging.

Organiser
• Manuela Flachi, ERTICO - ITS Europe

Moderator
• Jean-Charles Pandazis, ERTICO - ITS Europe

Speakers
• Georg Hofer, B.I.M., Austria
• Mercedes Fernandez, Etra, Spain
• Fernando Zubillaga Elorza, MLC, Spain
• Angelos Admitis, Institute of Communication and Computer Systems - ICCS, Greece
• Silvio Weeren, eMI3 Chairman, IBM, Germany

SIS 16  ITS for Via Baltica - innovations for sustainable development

Description
The European route E67, better known as Via Baltica, is a significant road connection between the Baltic States spanning over thousand kilometers from Prague to Helsinki. This special interest session wants to give an overview on the considerations and key aspects of how to further continue the constant upgrading of the Via Baltica with ITS-applications and/or Electronic Toll Collection, ETC. Due to the high level of international transit and traffic in this macro-region, the support and facilitation of intelligent transport is one of the core aspects of transport policy.

Organiser
• Clemens Schober, Kapsch TrafficCom, Austria

Moderator
• Josef Czako, Kapsch TrafficCom, Austria

Speakers
• Fotis Karamitsos, European Commission, DG MOVE
• Aivo Adamson, Estonian National Road Administration, Estonia
• Madis Sassiad, GoSwift, Estonia
• Skirmantas Skrinskas, Lithuanian Road Administration, Lithuania
• Raimo Tapio, Finnish Transport Agency – FTA, Finland
**SIS 17  Efficiency gains through modern ITS for winter maintenance management**

**Description**  
Management of winter maintenance has been a self-evident activity in colder regions and areas. As outsourcing and unbundling of winter maintenance services has gained ground, management systems face a corresponding challenge to meet the requirements of efficiency, safety and productivity. New technologies, new contract models and particularly new management support systems are needed. This session will bring together road authorities, researchers and system and technology suppliers to discuss this on-going change. The session highlights promising possibilities while at the same time identifying critical bottlenecks in ITS deployment in Arctic environments.

**Organiser**  
• Pekka Leviäkangas, University of Oulu, Finland

**Moderator**  
• Eetu Pilli-Sihvola, Finnish Transport Safety Agency, Finland

**Speakers**  
• Naoto Takahashi, CERI, Japan  
• Juha Jaaskela, Arctic Machine, Finland  
• Tuomo Kinnunen, University of Oulu, Finland  
• Torgeir Vaa, Norwegian Public Roads Administration - NPRA, Norway  
• Taisto Haavasoja, Teconer Ltd, Finland

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**SIS 18  Cooperative ITS via cellular networks**

**Description**  
The infrastructure coverage of Cooperative ITS, C-ITS will likely be provided for the most part by cellular networks, enabling almost all of the “Day One C-ITS” foreseen. The session discusses the key issues in the deployment of cellular network based C-ITS and the related solutions while presenting examples of the technical performance, impacts and user acceptance.

**Organiser**  
• Risto Kulmala, The Finnish Transport Agency - FTA, Finland

**Moderator**  
• Seppo Öörni, Ministry of Transport and Communications, Finland

**Speakers**  
• Stefan Myhrberg, Ericsson, Sweden  
• Mika Rytkönen, HERE, Finland  
• Frans op de Beek, Ministry of Infrastructure and the Environment - Rijkswaterstaat, The Netherlands  
• Stéphane Petti, Orange, Luxembourg  
• Gonzalo Alcaraz, Swarco Mizar S.p.A., Italy
**SIS 19**  
**Human factors related opportunities and challenges for ITS**

**Description**  
Many ITS, whether they are roadway ITS or in-car ADAS, have human factors-related elements that affect their effectiveness. With C-ITS, systems interact with drivers directly more and more. This session aims to provide practitioners with an overview of the most notable insights derived from psychological, behavioural and social science studies. These insights outline important policy implications and help to create practical rules that explain why some systems are successful and others are not. The speaker panel will discuss findings from studies on roadway ITS, in-car ADAS and cooperative technology.

**Organiser**  
• Jaap Vreeswijk, Imtech Traffic & Infra, The Netherlands

**Moderator**  
• Michael Aherne, National Transport Authority, Ireland

**Speakers**  
• Samantha Jamson, University of Leeds, United Kingdom  
• Jaap Vreeswijk, Imtech Traffic & Infra, The Netherlands  
• Katharina Oeltze, German Aerospace Center - DLR, Germany  
• Merja Penttinen, Technical Research Centre of Finland - VTT, Finland  
• Marieke Martens, TNO / University of Twente, The Netherlands

**SIS 20**  
**ITS for regulatory telematics**

**Description**  
A joint architecture for regulatory and private sector ITS applications is desirable. EU supports one mandatory box per regulatory application, tachograph, weight-in-motion, road charging with limited access for private applications, while Australia supports one private box for several private, fleet management and governmental, access, speed, axel load, work diaries applications.

At a round-table we will discuss: Overcome barriers for coexistence of public and private services; alignment of architectures among transport modes and Internet-of-Things; Ownership and access to resources and data; Tamper resistance; and Joint declaration on what should be done.

**Organiser**  
• Sten Wandel, Lund University, Sweden

**Moderator**  
• Ralf Bosch, Rapp Trans AG, Switzerland

**Speakers**  
• Stefan Deix, CLEPA, Belgium  
• Gavin Hill, TCA, Australia  
• Anders Berger, Volvo Group Trucks Technology, Sweden  
• Håkan Schildt, Scania CV AB, Sweden  
• Philippe Hamet, DG MOVE, European Commission
**SIS 21  Integrated urban transport and mobility management**

**Description**

Whilst traditionally urban transport management related mainly to traffic signal control, nowadays it includes a much wider variety of systems and technologies. It results in safer, more sustainable and more environmentally friendly traffic and provides a better mobility experience to travellers, to benefit both local commuters and visitors. In this session, the invited speakers will present their technologies, experiences of implementations, social impacts and lessons learnt. This session is a great opportunity for city representatives, service providers and other ITS stakeholders to learn how to deploy new technologies in existing urban transport management frameworks.

**Organiser**

- Yanying Li, ERTICO - ITS Europe

**Moderator**

- Patrick Mercier-Handisyde, DG RTD, European Commission

**Speakers**

- Maurice Geraets, NXP Semiconductors, The Netherlands
- Umberto Guida, UITP, Belgium
- Daniel Zackrisson, VOLVO, Sweden
- Ely Bernardi, Instituto de Pesquisas Tecnológicas - IPT, Brazil
- Merja Penttinen, Technical Research Centre of Finland - VTT, Finland

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**SIS 22  Accelerating ITS deployment with the connecting Europe facility**

**Description**

In 2014 kick-off the new regulations for the financing of Trans-European Network. For the transport sector, this amounts to more than 26 billion of financial support, including €11 billion exclusively allocated to Member States eligible for funding from the Cohesion Fund. ITS deployment remains a horizontal priority of the new programme, whilst the scope of the new technologies and innovation priority is broadened, including not only transport decarbonisation but also safety and sustainability of movement of persons and transport of goods. What are the implications and opportunities for the ITS innovators? What new services and technologies could be deployed faster with the support of CEF? How can the Member States eligible for Cohesion Funds best engage in ITS deployment? A panel composed of European Commission and Member States officials will try to answer those questions with the aim to support the fast and wide-spread deployment of ITS across the whole EU.

**Organiser**

- Pawel Steimaszczyk, DG MOVE, European Commission

**Moderator**

- Pawel Steimaszczyk, DG MOVE, European Commission

**Speakers**

- Martin Pichl, Ministry of Transport, Czech Republic
- Dean Herenda, Ministry of Infrastructure and Spatial Planning, Slovenia
- Ziemowit Cyndrowski, General Directorate for National Roads and Motorways, Poland
**SIS 23  Data - for cooperation, innovation and social media - what about democracy**

**Description**
Data is a hot question. Some aspects are the access, the use and the expected development of new data and services. From a democratic and an innovative point of view data should be as free as possible. Besides this, some data has a commercial value and should be handled as such. This session will cover: how data from different stakeholders can be integrated to create new services, the legal and commercial aspects, what business models look like and how cities are using data and ICT to reach their policy goals.

**Organiser**
- Alf Peterson, Viktoria Swedish ICT, Sweden

**Moderator**
- Niklas Johansson, Viktoria Swedish ICT, Sweden

**Speakers**
- Erik Ståhlkrantz, City of Stockholm, Sweden
- Sami Sahala, City of Helsinki, Finland
- Tiffany Vlemmings, National Data Ware House, The Netherlands
- Eric van der Ster, Ministry of Infrastructure and the Environment - Rijkswaterstaat, The Netherlands
- Sylvain Haon, Polis, Belgium
- Marco Boero, Softeco Sismat srl, Italy

**SIS 24  User centric design for ITS applications - games and gamification**

**Description**
Game mechanics applied to transport and travellers has the potential to revolutionise the way we design ITS user interface systems. Humans love to play and compete amongst their peers, using game mechanics adds an element of fun into complex technology. This session will present the latest thinking and advancements in gamification, social media and user interaction design as applied to ITS systems.

**Organiser**
- Kevin Prescott, Hodos Media, United Kingdom

**Moderator**
- Eric Sampson, Independent Transport Strategy Adviser, United Kingdom

**Speakers**
- Kevin Prescott, Hodos Media, United Kingdom
- Richard Harris, Xerox Services, United Kingdom
- Ronan Carter, Please Cycle, United Kingdom
- Marcia Pincus, US Department of Transportation, United States
**SIS 25** Regional European Electronic Toll Service, REETS: Interim results and outlook

**Description**
REETS TEN aims to deploy EETS compliant services in a cross-border regional project and covers the electronically tolled network of 7 Member States, Austria, Denmark, France, Germany, Italy, Poland and Spain and Switzerland. It is co-funded by the European Union, TEN. The session will present the interim findings and results of the project and provide an outlook on the next activities. The session finishes with moderated questions and answers with the audience and the invited speakers.

**Organiser**
- Hubert Resch, ASFINAG, Austria

**Moderator**
- Hubert Resch, ASFINAG, Austria

**Speakers**
- Valérie Dumerc, ASFA, France
- Daniel Ohst, Rapp Trans, Germany
- Paolo Giorgi, AISCAT Servizi, Italy
- Hubert Resch, ASFINAG, Austria
- Anne Grünkorn, AETIS / LogPay Transport Services, Germany
- Philippe Hamet, DG MOVE, European Commission
- Anna Gruszczyńska, General Directorate for National Roads and Motorways - GDDKiA, Poland

**SIS 26** eCall and ERA GLONASS forward to deployment

**Description**
This is a panel discussion bringing together HeERO eCall and GLONASS Union to talk about the forthcoming deployment of both eCall systems in the location that is the very cross roads of the European and Russian systems. How will these two systems interact? How will vehicle makers deal with the two systems? What impact will the combination of GNSS systems have in the use of the systems? What are the implications for the users and the first responders?

**Organiser**
- Andy Rooke, ERTICO - ITS Europe

**Moderator**
- Andy Rooke, ERTICO - ITS Europe

**Speakers**
- Evgeni Meilikhov, GLONASS Union, Russia
- Marcel Visser, Gemalto, Germany
- François Fischer, ERTICO - ITS Europe
- Risto Öörni, Technical Research Centre of Finland - VTT, Finland
Special Interest Sessions

**SIS 27** Satellite positioning technology driving the innovation in road tolling infrastructures

**Description**
GNSS-based tolling schemes are spreading throughout Europe as the preferred free-flow technology. It has demonstrated to be an important asset on the design of new ITS infrastructures; with a special attention to its flexibility, low infrastructure costs and sustainable use in the long term. Experts will share their experience working with GNSS; focusing on the challenges and opportunities that still need to come from the technical and business side. The importance interoperability between technologies and schemes will be an important topic of debate.

**Organiser**
- Alberto Fernández Wyttenbach, European GNSS Agency - GSA, Czech Republic

**Moderator**
- Fiammetta Diani, European GNSS Agency - GSA, Czech Republic

**Speakers**
- Norbert Schindler, Siemens Electronic Tolling, Austria
- Alberto Fernández Wyttenbach, European GNSS Agency - GSA, Czech Republic
- Miroslav Bobošík, SkyToll, Slovakia
- Yves Capelle, Guide GNSS, France
- Tuomo Suvanto, Ministry of Transport and Communications, Finland

**Wednesday 18 June 2014**
**14:00 - 15:30**

**Room 208**

**SIS 28** Opening the market to C-ITS through the deployment in cities

**Description**
Despite the current availability of products in the market and the clear demand of services by the users, the penetration of Cooperative ITS services is insufficient and not yet interoperable across Europe. This session will look into current implementation initiatives and mass-deployment perspective from the point of view of users and public authorities, considering also the latest inputs from hardware and service providers. Expert speakers will present actual examples to concretely achieve viable and economically sustainable solutions towards the objective C-ITS available to all citizens.

**Organiser**
- Pierpaolo Tona, ERTICO - ITS Europe

**Moderator**
- Pierpaolo Tona, ERTICO - ITS Europe

**Speakers**
- Mika Kulmala, City of Tampere, Finland
- André Perpey, Geoloc Systems, France
- Klaas Rozema, Imtech Traffic & Infra, The Netherlands
- Olivier Lenz, Fédération Internationale de l’Automobile - FIA
- Carlo Van de Weijer, TomTom, The Netherlands
**SIS 29  The availability of radio frequencies - the basis for ITS implementation**

**Description**
Access to radio frequencies is a pre-requisite for all radio services. Tolling technologies have a long history in using frequency bands in the 5,8 GHz range, new applications like CZX are on their way to be implemented in the 5,9 GHz range. But also other, non ITS users request the usage of radio frequencies under specific conditions not only on European but also on a worldwide scale. The round table discussions with the invited speakers will show the commonalities and further issues that needs attention in the next steps.

**Organiser**
- Marko Jandrisits, ASFINAG, Austria

**Moderator**
- Marko Jandrisits, ASFINAG, Austria

**Speakers**
- Maurizio Rotondo, AISCAT – ASECAP, Italy
- Markus Richter, Daimler AG - C2C CC, Germany
- Refi Tugrul Güner, Kapsch, Austria
- Olle Isaksson, Ericsson AB, Sweden

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**SIS 39  Mobility patterns from anonymous data, sensors and networks**

**Description**
In cities and urban networks but also on public places with high numbers of travellers like train stations, airports etc. the understanding of mobility patterns and network movements is of utmost importance for traffic managers, public authorities and ITS service providers which support dynamic and adaptive traffic management. In the mobility domain various types of sensors have been developed, based on Bluetooth, Wi-Fi and other network technologies which have the big advantage to not involve any personal data, although they are connecting to nearby or passing personal devices.

In this session various providers of networked data solutions are explaining their approach and powerful installations in cities, stations and public places and answer additional questions from the audience. The comparison of the different solutions makes the session interesting for the audience.

**Organiser**
- Walter Zimmermann, AustriaTech, Austria

**Moderator**
- Alexander Froetscher, AustriaTech, Austria

**Speakers**
- Alexander Froetscher, AustriaTech, Austria
- Gino Franco, Swarco / Mizar Automazione, Italy
- Preben Fugl Andersen, Blip Systems, Denmark
SIS 31  Deployment of C-ITS, the Amsterdam Group and Dutch policy strengthen each other

Description
The Amsterdam Group with partners CEDR-ASECAP-Polis and C2C-CC facilitates the deployment of C-ITS in Europe. The aim is to encourage cooperation between committed key stakeholders. The Amsterdam Group has developed a Road Map on initial deployment of C-ITS in Europe. The Ministry of Infrastructure and the Environment - Rijkswaterstaat as CEDR member has started a nationwide transition programme based on the Dutch policy in which the transition from roadside towards in-car systems is a major theme. Within this programme the results of the Amsterdam Group will be applied for among others the C-ITS Corridor from the Netherlands to Germany and Austria.

Organiser
• Frans op de Beek, Ministry of Infrastructure and the Environment - Rijkswaterstaat, The Netherlands

Moderator
• Frans op de Beek, Ministry of Infrastructure and the Environment - Rijkswaterstaat, The Netherlands

Speakers
• Marko Jandrisits, ASFINAG, Austria
• Marja van Strien, Ministry of Infrastructure and the Environment - Rijkswaterstaat, The Netherlands
• Steffen Rasmussen, City of Copenhagen, Denmark
• Burak Şimşek, Volkswagen, Germany
• Torsten Geißler, Federal Highway Research Institute - BASt, Germany

SIS 32  From smart cities to smart citizenship

Description
Smart citizenship is directly linked to the mobility as a service concept. ITS in cities increase efficiency and improve quality of life. Ubiquitous information, smart ticketing and drive-me services may provide solutions for citizens and visitors, enable seamless connections with touristic destinations, address seasonal surge in demand and fuel economic development. With accurate positioning systems and users voluntarily becoming providers of information on their own mobility patterns, closed transport technologies are opened to web-based technologies, increasing the efficiency of transport systems. Users dependence on mobile applications could enhance attractiveness of public transport, promote internet-based activities, social networking and innovative cooperation mechanisms.

Organiser
• Rodanthi Sfakianaki, Ministry of Infrastructure, Transport and Networks, Greece

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

Speakers
• Georgia Ayfantopoulou, Hellenic Institute for Transport - HIT / Centre for Research and Technology - CERTH, Greece
• Eftihia Nathanail, University of Thessaly, Greece
• Yorgos Stefanides, University of Patras, Greece
• George Gillespie, Glasgow City Council, United Kingdom
• Eric Monceyron, Urban Community of Bordeaux, France
• Veera Mustonen, Smart Kalasatama, Finland
• Ioannis Matsas, Ministry of Infrastructure, Transport and Networks, Greece
SIS 33  Building European travel planners through collaboration and sharing services

Description
There are many (real-time) travel planners in different European countries. Most are non-dynamic and regional. This session presents a way of cooperation and sharing services which makes innovation possible in European travel planner services. The basis of this project is a Dutch cooperation which joined forces with Co-Cities and SuperHub. The importance of collaboration, (open) data, the availability of data, the stakeholders role and a platform for sharing will be discussed. This interactive Session includes pitches, interactive discussions and is an open invitation to all interested parties.

Organiser
• Gerbrand Klijn, Provincie of Noord-Brabant, The Netherlands

Moderator
• Paul Potters, Cachelot, The Netherlands

Speakers
• Gerbrand Klijn, Provincie of Noord-Brabant, The Netherlands
• Alexander Froetscher, AustriaTech, Austria
• Marco Menichetti, Fondazione Legambiente Innovazione, Italy
• Luigi Telesca, Exrade, Italy
• Jacco Lammers, Go About, The Netherlands
• Henri Palm, DAT.Mobility, The Netherlands
• Marco Boero, Softeco Sismat srl, Italy
• Michel Boerrigter, Calendar42, The Netherlands
• Lourens Klok, Hewlett Packard, The Netherlands

SIS 34  Behind the app: data sharing & business ethics

Description
New mobility apps for citizens, consumers and businesses appear every day. Examples given by the Polis position, by innovative ITS apps running in Europe, Smartmoov, SMILE, SuperHub and Urban Pulse as well as by new projects like Compass 4D, show that success factors are not limited to the “free provision” of data. Behind the app, all along the creation process from the source to the final realisation, a value chain of criteria, quality, reliability, transparency, privacy gives birth to what we can call a “service” for the public.

Organiser
• Nicole Louvat, Transdev, France

Moderator
• Jean Coldefy, Grand Lyon, France

Speakers
• Marco Menichetti, Fondazione Legambiente, Italy
• Reinhard Birke, Wiener Stade, Austria
• Pierpaolo Tona, ERTICO - ITS Europe
• Alain Staron, Transdev, France
• Suzanne Hoadley, Polis, Belgium
**SIS 35  Towards novel transport service ecosystems**

**Description**
Big data, cooperative systems, automation, XaaS and especially Mobility/Traffic as a Service, innovative procurement, crowd sourcing, and many other new trends and paradigms provide novel transport service ecosystems. Examples and also first experiences of such new service ecosystems are shared from different parts of Europe.

**Organiser**
- Risto Kulmala, The Finnish Transport Agency - FTA, Finland

**Moderator**
- Mika Rytkönen, Here, Finland

**Speakers**
- Richard Harris, Xerox Services, United Kingdom
- Martin Russ, AustriaTech, Austria
- Sampo Hietanen, ITS Finland, Finland
- Michael Wolf, Daimler Mobility Services, Germany
- Hans Arby, UbiGo, Sweden

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**SIS 36  Public procurement of innovation: The final step to ITS deployment?**

**Description**
Many ITS technologies are ready to be deployed by public operators, but public procurement processes are not necessarily innovation-friendly. Different levels and actors have to be considered to ensure that public procurement is a fertile ground for innovation in Europe. The goal of this session will therefore be to discuss the experts views on different innovation approaches, find out how innovations can currently be best deployed through public procurement, and present experiences from procurers who have tried to find the right match between public goals and procurement instruments.

**Organiser**
- Jose Manuel Martinez Oliveira, Centro Tecnológico de la Automoción de Galicia - CTAG, Spain

**Moderator**
- Sébastien Mure, ERTICO - ITS Europe

**Speakers**
- Eva Buchinger, Austrian Institute of Technology GmbH, Austria
- Svend Tøfting, North Denmark Region, Denmark
- Jean-Christophe Maisonneuve, Isère General Council, France
- Jean-Philippe Méchin, Centre For Studies and Expertise on Risks, Environment, Mobility, and Urban and Country Planning - CEREMA, France
- Francisco Sanchez, Centro Tecnológico de la Automoción de Galicia - CTAG, Spain
- Sampsa Nissinen, Tekes, Finland
- Kari Hiltunen, The Finnish Transport Agency - FTA, Finland
SIS 37  Challenges of automated driving

Description
European research projects on automated driving develop new and integrated functions, based on a shared control concept that assures proper collaboration between the driver and the automation system. This is realised by using cooperative vehicle technologies, advanced obstacle sensors and adaptive schemes where the level of automation dynamically responds to the situation and driver status. Implementations are based on the needs of different environments and levels of traffic complexity, including motorways, urban scenarios and close-distance manoeuvres. Communication technologies are the key enabler of highly automated schemes. Format: presentations and moderated discussion, audience engagement possible.

Organiser
• Aria Etemad, Volkswagen AG, Germany

Moderator
• Maxime Flament, ERTICO - ITS Europe

Speakers
• Aria Etemad, Volkswagen AG, Germany
• Lali Ghosh, Delphi Delco Electronics Europe GmbH, Germany
• Angelos Amditis, Institute of Communication and Computer Systems - ICCS, Greece
• Katharina Wiedemann, Würzburger Institut für Verkehrswissenschaften, Germany
• Felix Fahrenkrog, RWTH Aachen University Institut für Kraftfahrzeuge - IKA, Germany

SIS 38  Connecting C2X-technology with safety relevant applications

Description
This Special Interest Session is organised as a presentation with audience engagement - discussion and presentation of the idea after the session at the exhibition area, Germany and Czech Republic. This session introduces safety relevant applications using the C2X technology e.g. the Pan-European eCall, driver assistance, wrong-way driver identification, railway crossing, dangerous goods and additional services using satellite navigation systems like GPS, GLONASS and GALILEO. This session will educate and introduce new ideas to make traffic management safer. A link to TP5 services using the eCall application will complete the session.

Organiser
• Harry-Hermann Evers, ITS Deutschland GmbH, Germany

Moderator
• Harry-Hermann Evers, ITS Deutschland, Germany

Speakers
• Thomas Krause, Wolfsburg AG, Germany
• Martin Pichl, Ministry of Transport, Czech Republic
• Holger Seidel, Fraunhofer Institute IFF, Germany
• Tomá štárek, INTENS Corporation s.r.o., Czech Republic
• Tomš Tvrzský, Telematix Software a.s., Czech Republic
• Arnost Matlafus and Prof. Ing. Petr Boucher, KPM CONSULT, a.s., Czech Republic

Room 209
Thursday 19 June 2014
10:15 - 11:45

Room 215
Thursday 19 June 2014
10:15 - 11:45
**SIS 30  ITS for improving VRU safety**

**Description**

Vulnerable Road Users, VRUs, such as pedestrians, cyclists, motorcyclists, scooter and moped riders, have not enjoyed sufficient attention regarding ITS development. They have not experienced the same decrease in fatalities as other traffic participants. VRUs have specific mobility characteristics. A holistic approach with VRUs in the centre is needed in order to improve VRU safety. This Special Interest Session will discuss the major issues faced by VRUs in road traffic, and how ITS applications can provide effective solutions and significantly improve VRUs' safety and mobility.

**Organiser**

- Johan Scholliers, Technical Research Centre of Finland - VTT, Finland

**Moderator**

- Lina Konstantinopoulou, ERTICO - ITS Europe

**Speakers**

- Stella Nikolaou, Centre for Research and Technology -CERTH, Greece
- Johan Scholliers, Technical Research Centre of Finland - VTT, Finland
- Anna Anund, VTI, Sweden
- Antonio Perlot, ACEM, Belgium
- Aline Delhaye, Federation of European Motorcyclists’ Association - FEMA
- Jean-Michel Henchoz, Denso International Europe, Belgium

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**SIS 40  How connected/automated vehicle will change the traffic management task**

**Description**

Traffic management is by far the most important instrument to organise traffic on roads in a safe and efficient manner. With the dramatic increase of number of vehicles on roads, we experience the limited capabilities of the methodologies/technologies developed in the past 50 years. Within the next 3 decades we can expect a significant share of connected/automated vehicles on roads without a driver behind the steering wheel. A major part of future traffic management tasks may be managed by vehicles themselves. Which tools and technologies will be required by the infrastructure operator in a connected vehicle environment?

**Organiser**

- Reinhard Pfliegl, A3PS, Austria

**Moderator**

- Reinhard Pfliegl, A3PS, Austria

**Speakers**

- Manfred Harrer, ASFINAG, Austria
- Cees de Wijs, SWARCO AG, Netherland
- Ian Chalmers, UK Highway Agency, UK
- Jörg Lützner, Continental Automotive GmbH, Germany
- Graham Hanson, Department for Transport - DfT, United Kingdom
- Representative from US Department of Transportation, United States
Tuesday 17 June 2014
14:00 - 15:30

**Room 204**

**TS 01 Market creation**

**TP 0005** ITs innovation Stockholm Kista – Innovative ITS solutions help Stockholm commuters
Jens Löfgren - Sweco, Sweden

**SP 0058** Location-based social networking: moving toward mode choice
Meredith Cebelak - University of Texas at Austin, United States

**TP 0112** VAO: Services instead of data - Austrian inter-modal traffic information
Tobias Schleser - CNS-Solutions & Support GmbH, Austria

**TP 0187** MOBINET – An innovative approach for a European-wide ITS service platform
Tobias Schlauch - German Aerospace Center - DLR, Germany

**TP 0239** Government-industry joint effort: Services and applications in road traffic
Elias Pöyry, EERA, Finland

**TP 0136** Getting the maximum return from ITS solutions
Richard Harris - Xerox, United Kingdom

**Moderator**
Sebastien Mure
ERTICO - ITS Europe

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Tuesday 17 June 2014
14:00 - 15:30

**Room 205**

**TS 02 Innovative data collection 1**

**TP 0042** Occupancy data collection from street parking in winter conditions
Ali Lattunen - Finnpark Ltd, Finland

**SP 0050** Mobile crowdsensing of parking space using geofencing and activity recognition
Mikko Rinne - Aalto University, Finland

**TP 0147** Smarter and safer, an innovative road accident data acquisition application
Fabio Galatioto - Newcastle University, United Kingdom

**TP 0190** Impact analysis of the ecoBalanced priority and ecoGreen wave applications
Faqrul Islam - Technical University Munich, Germany

**TP 0246** Impact analysis of the ecoApproach advice application
Jaap Vreeswijk - Intech Traffic & infra, Netherlands

**Moderator**
Pascal Lemonnier
EGIS, France

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Tuesday 17 June 2014
14:00 - 15:30

**Room 206**

**TS 03 Deploying ITS for environmental benefit 1**

**TP 0235** Identifying the most promising ITS solutions for clean/efficient mobility
Frans op de Beek - Rijkswaterstaat, Netherlands

**SP 0045** Combinations of ITS applications and their impact assessment
Faqrul Islam - Technical University Munich, Germany

**TP 0159** Impact quantification of traffic fluency for ITS benefit-cost analysis
Jussi Sauna-aho - Vemosim Ltd, Finland

**TP 0190** Impact analysis of the ecoBalanced priority and ecoGreen wave applications
Faqrul Islam - Technical University Munich, Germany

**TP 0246** Impact analysis of the ecoApproach advice application
Jaap Vreeswijk - Intech Traffic & infra, Netherlands

**Moderator**
Julie Castermans
ERTICO - ITS Europe
## Technical/Scientific Sessions

### Room 207

**Tuesday 17 June 2014**

**14:00 - 15:30**

**TS 04** Towards mobility as a service

| SP 0010 | Potentials of shared electric vehicles in multimodal mobility systems  
Sven Vlassenroot - Flanders Institute for Mobility, Belgium |
| --- | --- |
| TP 0083 | Bolzano Traffic: an example of open ITS deployment  
Roberto Cavaliere - TIS innovation park, Italy |
| TP 0129 | Providing mobility as a service, public sector as a catalyst  
Sonja Heikkilä - Aalto University, Finland |
| TP 0193 | Integrated system of support for mobility  
Carlos Pereira - GISMEDIA, Portugal |
| TP 0208 | Benefits of internet of mobility for cities and service providers  
Panagiotis Lytrivis - ICCS, Greece |

**Moderator**

Rudi Lagerweij  
Vialis, Netherlands

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### Room 208

**Tuesday 17 June 2014**

**14:00 - 15:30**

**TS 05** Traffic management & control

| TP 0270 | Differences concerning traffic light regulations and its implication across Europe  
Cornelia Hebenstreit - Technical University of Graz, Austria |
| --- | --- |
| TP 0057 | VectorSenseTM technology for enhanced traffic information, safety and roadway design  
Terry Bergan - International Road Dynamics, Canada |
| TP 0096 | Including pedestrian and bicycle traffic into the traffic simulation SUMO  
Daniel Krajzewicz - German Aerospace Center - DLR, Germany |
| TP 0151 | Traffic control using probe vehicle data  
Siebe Turksma - Imtech Traffic & Infra, The Netherlands |
| TP 0214 | Real-time traffic optimisation based on environment indicators  
Karsten MCFarland - PTV Group, Germany |

**Moderator**

Mika Kulmala, City of Tampere, Finland

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### Room 209

**Tuesday 17 June 2014**

**14:00 - 15:30**

**TS 06** Automated vehicles

| TP 0209 | Automatic evasive manoeuvres for obstacles avoidance. Tests in complex scenarios  
Felipe Jimenez - Technical University of Madrid, Spain |
| --- | --- |
| SP 0023 | Safe usage of nomadic devices in highly-automated vehicles  
Stephan Lapoehn - German Aerospace Center - DLR, Germany |
| SP 0032 | Automated driving: User acceptance and the influence on traffic flow  
Arjan van Vliet - RDW, The Netherlands |
| TP 0035 | Automated vehicles as part of the public transport system  
Johanna Nyberg - Ramboll, Finland |
| TP 0067 | Automated driving and the key megatrends of future  
Lasse Nykanen - Tampere University of Technology, Transport Research Centre Verne, Finland |
| TP 0181 | Modular development for control of automated vehicles  
Javier Sanchez - Tecnalia Research & Innovation, Spain |

**Moderator**

Ian Patey  
Mouchel, United Kingdom
**TS 07 Advanced driver assistance**

**TP 0266** Designing an in-vehicle advisory system to enhance the traffic awareness  
Fang Chen - Chalmers University, Sweden

**SP 0004** Benefits and challenges of multi-driver-simulator studies  
Katharina Oeltze - German Aerospace Center - DLR, Germany

**SP 0021** Speed management at bends using LDM  
Çiğdem Çağdaroğlu - KoçSistem Bilgi ve İletişim Hizmetleri, Turkey

**TP 0140** DESERVE project: Design & development of an innovative platform for ADAS  
Pasi Pyynonen - VTT, Finland

**TP 0156** Evaluating automated vehicle systems using probabilistic sensor simulations  
Robin Schubert - BASELABS GmbH, Germany

**TP 0175** Driver reaction to system initiated evasive manoeuvres  
Andreas Puetz - Institute for Automotive Engineering, RWTH Aachen University - ika, Germany

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**TS 08 Zero emissions and eco-driving 1**

**TP 0009** Development and evaluation methodology of green driving support systems  
Philipp Seewald - Institut für Kraftfahrzeuge, RWTH Aachen University, Germany

**SP 0012** Performance of the GAIN enhanced active green driving assistant  
Robin Streiter - Chemnitz University of Technology, Germany

**TP 0043** Modelling the relation between driving and fuel consumption  
Laurens Lapre - CGI, The Netherlands

**TP 0199** On-board integration for public transport  
Niels van den Bosch - Imtech Traffic & Infra, Netherlands

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**TS 09 Platforms and Planners**

**TP 0275** European Easy-OBU Project – Final results  
Hannes Stratil - EFKON AG, Austria

**TP 0023** Mobile data collection and collaboration to improve public transport quality  
Antti Vuorela - Helsingin seudun liikenne, Finland

**SP 0024** Personalised traveller advisor for multimodal networks: theoretical and applicative issues  
Luca Rosati - University of Rome ‘Tor Vergata’, Italy

**TP 0061** Establishing an open in-vehicle platform for heavy vehicles  
Cornelie van Driel - Rapp Trans, Germany

**TP 0196** An open local dynamic map  
Klaas Rozema - Imtech Traffic & Infra, The Netherlands

**TP 0253** ItS Factory strategy and vision 2014-2017  
Mika Kulmala - City of Tampere, Finland
### Technical/Scientific Sessions

#### TS 10 Innovative data collection 2

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<th>Session</th>
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<tr>
<td>TP 0051</td>
<td>How GPS probes information can be used in TCCs? Franck Rivey - sanef ITS, France</td>
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<tr>
<td>TP 0128</td>
<td>Cross-vendor testing TPEG2-ULR linear location referencing Ilja Radusch - DCAITI-TU Berlin and Fraunhofer FOKUS, Germany</td>
</tr>
<tr>
<td>TP 0168</td>
<td>Harmonising with vox pop: Integrating public input into traveller-information systems Peter Davies - Castle Rock Associates, United Kingdom</td>
</tr>
<tr>
<td>TP 0222</td>
<td>Dynamic road slipperiness detection based on in-vehicle sensors Renne Tergujeff - VTT Technical Research Centre of Finland, Finland</td>
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**Moderator**
Graham Hanson
Department of Transport
United Kingdom

#### TS 11 Deploying ITS for environmental benefit 2

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<tr>
<td>TP 0198</td>
<td>An integrated realistic simulation tool-kit supporting deployment of C-ITS Services Gonzalo Alcaraz - SWARCO MIZAR, Italy</td>
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<tr>
<td>TP 0086</td>
<td>Consumption prediction based on machine learning - Functionalities &amp; business services Vasilis Artheopoulous - Institute of Communication and Computer Systems, Greece</td>
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<tr>
<td>TP 0154</td>
<td>Integration of CO2 assessment tools Michael Behrisch - DLR, Germany</td>
</tr>
<tr>
<td>TP 0172</td>
<td>eCoMove: Integration of results and conclusions Philipp Gikis DLR - German Aerospace Center, Germany</td>
</tr>
<tr>
<td>TP 0249</td>
<td>Impact Assessment of eco-driving information Philipp Gikis - German Aerospace Center - DLR, Germany</td>
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**Moderator**
Tim Gammons
Arup, United Kingdom

#### TS 12 New approaches to traffic management

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<tr>
<td>SP 0019</td>
<td>A review of heuristic rule-based coordinated ramp metering strategies Min Zhi - Delft University of Technology, Netherlands</td>
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<td>SP 0040</td>
<td>Using speed dynamics for short-term traffic forecasting Dionysios Kehagias - Centre for Research and Technology Hellas, Greece</td>
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<tr>
<td>TP 0080</td>
<td>Testing of the Artificial Intelligence Methods for Prediction of Traffic Martin Knopp - VARS Brno, Czech Republic</td>
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<tr>
<td>TP 0150</td>
<td>Next generation of traffic management using cooperative technologies: OMNIA C-ITS Accepted Gonzalo Alcaraz - SWARCO MIZAR SPA, Italy</td>
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<tr>
<td>TP 0179</td>
<td>Towards fully automated Traffic Management. Drones, how far are we? Fabio Galatioto - Newcastle University, United Kingdom</td>
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**Moderator**
Joanne Dodds, URS, UK, United Kingdom

#### TS 13 Data warehousing

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<td>TP 0031</td>
<td>LIVE+GOV: Mobile citizen eGovernment dialogue for mobility Laura Niittyla - Mattersoft Ltd, Finland</td>
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<td>SP 0054</td>
<td>Using an open-government transport graph for solving a location-allocation problem Andreas Pel - University of Applied Sciences Upper Austria, Austria</td>
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<tr>
<td>TP 0045</td>
<td>Towards a reference network model to index multiple data sources Russell Pinchen - New Zealand Transport Agency, New Zealand</td>
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<tr>
<td>TP 0189</td>
<td>Action and crossing assistant - eGovernment tools for traffic-related actions Hans Fibi - Verkehrsverbund Ost-Region, VOR GmbH / ITS Vienna Region, Austria</td>
</tr>
<tr>
<td>TP 0236</td>
<td>The influence of sample quantities on traffic data quality Cifer Avni - Cellint Traffic Solutions, Israel</td>
</tr>
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**Moderator**
Nick Illsley, Transport Direct, United Kingdom
TS 14  C-ITS: urban applications

TP 0010  Enabling C-ITS introduction through an open source development framework  
Martin Dirmwoeber - AustriaTech, Austria

TP 0171  C-ITS implementation issues: barriers and possible solutions  
Jean-Charles Pandazis - ERTICO - ITS Europe

TP 0173  Compass4D stakeholder consultation  
Jaap Vreeswijk - Imtech Traffic & Infra, The Netherlands

TP 0197  An open interface to urban traffic control  
Klaas Rozema - Imtech Traffic & Infra, The Netherlands

TP 0258  Smart cities based on cooperative ITS  
Knut Evensen - Q-Free, Norway

TS 15  C-ITS: user acceptance and human factors

TP 0177  Estimation of driving stress by biomedical measures  
Gianguido Sala - ProMAE Srl, Italy

SP 0015  Effectiveness of advisory warnings based on cooperative perception  
Frederik Naujoks - University of Würzburg, Germany

TP 0017  Vehicle connectivity and automation for ageing society  
Ching-Yao Chan - California PATH, University of California, Berkeley, United States

TP 0271  Ready to cooperate? User acceptance of DRIVE C2X applications  
Joerg Rech - Facit Research GmbH & Co. KG, Germany

TP 0082  Cooperative mobility systems: The human factor challenges  
Marieke Martens - TNO and University of Twente, The Netherlands

TS 16  Zero emissions and eco-driving 2

TP 008  Classification of empirical urban traffic patterns  
Gerhard Hermanns – University of Duisburg-Essen, Germany

SP 0052  Emission control of freeway traffic: novel iterative adaptive compensation method  
László Nádai - Óbuda University, Hungary

TP 0093  Advanced rider assistance systems and motorcyclists’ riding behaviour  
Anne Vehmas - Ramboll Finland Oy, Finland

TP 0145  ITS for bicyclists in Copenhagen  
Maria Wass-Danielsen - City of Copenhagen, Denmark
## Technical/Scientific Sessions

### TS 17 Detection technologies

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<tr>
<td>SP 0003</td>
<td>Development of non-visible vehicle detection technology on the road</td>
<td>Byung Hwa Kim - Korea Institute of Construction Technology, South Korea</td>
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<td>TP 0016</td>
<td>Comparing license plate and bluetooth reidentification for travel time estimation</td>
<td>Jure Pirc - Traffic design Ltd., Slovenia</td>
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<td>TP 0163</td>
<td>RSI – Road Status Information - detection of road conditions</td>
<td>Jörgen Bogren - Göteborg University, Sweden</td>
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<td>TP 0194</td>
<td>The verification of block size to distinguish road surface conditions</td>
<td>Keiji Shibata - University of Toyama, Japan</td>
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<td>TP 0210</td>
<td>A DATEX II compliant traffic management system</td>
<td>Vijay Mudunuri - intelliRoad OG, Austria</td>
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<td>TP 0219</td>
<td>Vehicle detection from omni-directional video using rotation invariant feature</td>
<td>Koutaro Katayama - University of Toyama, Japan</td>
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### TS 18 Public transport systems

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<tr>
<td>TP 0070</td>
<td>Moving to an automated bus performance monitoring regime</td>
<td>Nigel Hardy - Transport for London, United Kingdom</td>
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<tr>
<td>TP 0267</td>
<td>Analysis of bus delays in Tampere using real-time data</td>
<td>Riitta Kerminen - Tampere University of Technology, Finland</td>
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<td>TP 0013</td>
<td>“Tell me where is my bus”</td>
<td>Davide Gastaldi - 5T s.r.l., Italy</td>
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<td>SP 0014</td>
<td>Risking the public transportation connection</td>
<td>Jyrki Nummenmaa - University of Tampere, Finland</td>
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<td>SP 0016</td>
<td>Analysing traffic fluency from bus data</td>
<td>Paula Syrjrinne - University of Tampere, Finland</td>
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<tr>
<td>TP 0272</td>
<td>From open data to Big Data in public transport</td>
<td>Sybille Berjoan - Accenture, France</td>
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### TS 19 Travel Planner 1

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<tr>
<td>TP 0070</td>
<td>OPTIMOD LYON: The real time multimodal journey planner for travellers</td>
<td>Jean-loup Gauduchea - CITYWAY, France</td>
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<td>TP 0069</td>
<td>Deployment of interoperable cross-border multimodal traveller information in central Europe</td>
<td>Gerhard Menzel - AustriaTech, Austria</td>
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<tr>
<td>TP 0126</td>
<td>Multi-modal Traffic/Travel Information Delivery Through Cloud-Computing Implementation</td>
<td>Edmond Chang, EDCPC Inc, United States</td>
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<td>TP 0117</td>
<td>Tourists, a new target group for digital travel planners?</td>
<td>Caroline Mattsson - Trivector Traffic AB, Sweden</td>
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<td>TP 0132</td>
<td>Crossing borders with open data</td>
<td>Jyrki Kasvi - TIEKE Finnish Information Society Development Centre, Finland</td>
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<td>TP 0211</td>
<td>Mobility data pool for Niedersachsen / Bremen</td>
<td>Michael Schäfer - Ministry for Economics, Labour and Transport, Germany</td>
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TS 20   Road User Charging 1

TP 0178  The biggest RUC project in Europe Passenger Car RUC Germany
Ludger Linnemann - AGES International, Germany

TP 0263  A simulation app for the German toll system
Bernd Pfitzinger - Toll Collect GmbH, Germany

TP 0038  New hardware platform supporting interoperability of European electronic tolling systems
Peter Tschulik - Siemens AG Austria, Austria

TP 0185  EETS – more than interoperability
Daniel Ohst - Rapp Trans, DE AG, Germany

TP 0213  Certification of road user charging approach, standardisation and labs role
Yves Capelle - GUIDE, France

TP 0242  ETC equipment certification site and procedure
Gwenaelle Toulminet - Association of French toll road operators, France

TS 21   Strategies and tools for traffic management

TP 0100  Future Compliance on English Smart Motorways
John Jones  - Atkins, United Kingdom

TP 0001  Seamless journeys in New Zealand from strategy to systems
Kathryn Musgrave - New Zealand Transport Agency, New Zealand

TP 0044  National transport management in Sweden
Trevor Platt - Nicander Ltd, United Kingdom

TP 0155  Institutional and organisational issues in interurban traffic control and management
Andrzej Kobuszewski - General Directorate for National Roads and Motorways, Poland

TP 0174  ITS Platform – development of intelligent traffic
Harry Lahrmann - Aalborg University, Denmark

TP 0127  Energy Efficient ITS/ICT for Improved Green Ports in Asia
Edmond Chang, EDCPC Inc, United States

TS 22   Safety and Vulnerable Road Users

TP 0024  TRAFISAFE – Feedback for novice drivers
Mikko Tarkiainen - VTT, Finland

SP 0026  Potential of ITS to improve safety and mobility of VRUs
Johan Scholliers - VTT Technical Research Centre of Finland, Finland

TP 0032  E-MOSION: Elderly friendly mobility services for indoor and outdoor scenarios
Laura Nittyla - Mattensoft, Finland

TP 0099  A cycling network model based on commuting trips
Pasi Metsäpuro - Tampere University of Technology, Finland

TP 0166  Impacts of ITS on vulnerable road users
Ioannis Giannelos - Ecorys, The Netherlands
Technical/Scientific Sessions

**Wednesday 18 June 2014 11:00 - 12:30**

**Moderator**
Phillip Proctor  
Highways Agency UK, United Kingdom

**TS 23 C-ITS 1**

**TP 2074** Map based intersection collision avoidance system  
Erdem Ergen - KoçSistem Bilgi ve İletişim Hizmetleri, Turkey

**TP 0007** CoMoSeF project to deploy co-operative mobility services of the future  
Pekka Eloranta - Mobisoft Oy, Finland

**TP 0049** An efficient prototype implementation for message security in V2V communication  
Timo van Roermund - NXP Semiconductors, The Netherlands

**TP 0218** Slow vehicle warning: Technical evaluation in DRIVE C2X  
Oliver Sawade - Fraunhofer FOKUS, Germany

**TP 0257** CO2perautoS2: Towards cooperative automated vehicles  
Francisco Sánchez - CTAG, Spain

**Room 209**

**Wednesday 18 June 2014 11:00 - 12:30**

**TS 24 Electric mobility**

**TP 0088** Sociotechnical transition of the Finnish electric mobility  
Pekka Malinen - Aalto University, Finland

**TP 0092** Roadmap for the Finnish electric mobility sector  
Tero Hahtela - Aalto University, Finland

**TP 0122** E-mobility deployment in practice - the charging challenge  
Andreas Schmid - SWARCO, Germany

**TP 0142** Intelligent car management application for advanced green road transport services  
Vasilis Asthenopoulos - Institute of Communication and Computer Systems, Greece

**Room 215**

**Wednesday 18 June 2014 11:00 - 12:30**

**TS 25 Deploying ITS for environmental benefit 3**

**TP 0054** Increased consumption in synchronized flow in over-saturated city traffic  
Peter Hemmerle - Daimler AG, Germany

**TP 0071** CO2 assessment methodologies for evaluating ITS – AMITRAN project results  
Gerdien Klunder - TNO, The Netherlands

**TP 0165** AMITRAN methodology for CBA and CEA of ITS measures  
Dick Mans - Ecorys, The Netherlands

**TP 0206** Assessing the impact of ICT services for electromobility  
Diego Rodríguez - CTAG, Spain

**Room 216**
**TS 26** Data handling 1

**TP 0087** Use and impacts of travel time information in Finland  
Merja Penttinen - Technical Research Centre of Finland, VTT, Finland

**TP 0192** The Austrian ITS LAW as basis for sustainable ITS deployment  
Stefan Schwillinsky - AustriaTech, Austria

**SP 0018** Towards interoperable traffic data sources  
Mikko Rinne - Aalto University, Finland

**TP 0237** Open Data – the new infrastructure  
Scott Cadzow - Cadzow Communications Consulting Ltd, United Kingdom

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**TS 27** Opening up data for apps

**SP 0028** Extracting railway topology and geometry information from OpenStreetMap data  
Christian Rahmig - German Aerospace Center - DLR, Germany

**TP 0033** Making open data usable for mobile apps  
Christian Aamodt - CIBER Norway, Norway

**TP 0052** The significance of the insignificant  
Jason Moss - Mouchel, United Kingdom

**TP 0231** HSL Navigator - Fully open journey planning  
Tuukka Hastrup - Helsinki Region Transport HSL, Finland

**TP 0240** Open data based RWIS for mobile devices  
Mikael Holmström - Intrinsic Ltd., Finland

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**TS 28** Road User Charging 2

**TP 0260** Matching Public Road User Charging with Private Partnership  
Wouter Van Haafken - University of Amsterdam, The Netherlands

**TP 0144** Secure road charging in mobile application eco systems  
Volker Vierroth - T-Systems International GmbH, Germany

**TP 0004** Introduction of the nationwide tolling system in Belarus  
Roman Himmler - Kapsch TrafficCom, Austria

**TP 0039** First free flow experience in Brazil  
Iñigo Larraondo - Schneider Electric, Spain

**TP 0074** Making the Slovak Tolling Network the Largest in the EU  
Norbert Schindler - Siemens Electronic Tolling, Austria

**TP 0243** Challenges in GNSS road user charging and French implementation experience  
Yves Capelle - Thales Alenia Space, France

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**Room 204**

Wednesday 18 June 2014  
16:00 - 17:30

**Moderator**  
Andras Csepinszky, ERTICO – ITS Europe

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**Room 205**

Wednesday 18 June 2014  
16:00 - 17:30

**Moderator**  
Mia Nykopp, Trafi, Finland

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**Room 206**

Wednesday 18 June 2014  
16:00 - 17:30

**Moderator**  
Eric Sampson, ERTICO - ITS Europe
**CONGRESS PROGRAMME**

**Technical/Scientific Sessions**

Wednesday 18 June 2014
16:00 - 17:30

**Room 207**

**TS 29 Traffic and emergency management**

**TP 0273** Multi-level transport systems model for traffic management activities  
Jacek Oskarbski - Gdansk University of Technology, Poland  

**TP 0060** DiCoMa – Project to develop disaster control management system and tools  
Pekka Eloranta - Mobisoft Oy, Finland

**TP 0230** Calibration of smart motorways including initial results on M62 J25-30  
Joe Castle - Atkins, United Kingdom

**TP 0251** MOS Mobile: a new technology for multimodal network operations  
Pierluigi De Marinis - ANAS, Italy

**Moderator**  
Giovanni Huisken  
MAPtm, Netherlands

**Room 208**

**TS 30 eCall**

**SP 0008** Interoperability of eCall and ERA-GLONASS in-vehicle emergency call systems  
Risto Öörni - VTT Technical Research Centre of Finland, Finland

**TP 0021** e2Call: eCall enhancement based on 4G and inference algorithms.  
Gianraffaele Percannella - Telecom Italia, Italy

**TP 0029** Lessons learnt from eCall for seamless deployment – conformance, performance, interoperability  
Martin Grzebellus - NavCert GmbH, Germany

**TP 0217** eCall Roadmap for Finland  
Aki Lumiaho - Ramboll, Finland

**TP 0245** Use of the eCall additional data concept  
Harold Linke – HITEC, Luxembourg

**Moderator**  
Andy Rooke  
ERTICO - ITS Europe

**Room 209**

**TS 31 C-ITS 2**

**TP 0265** Compass4D: Cooperative mobility pilot on safety and sustainability services  
Jaap Vreeswijk - Imtech Traffic & Infra, The Netherlands

**SP 0001** Ubiquitous connectivity platform for intelligent public transportation systems  
Andrei Ciprian Hosu - Technical University of Cluj-Napoca, Romania

**TP 0020** Cooperative ITS architecture: The FOTsis project approach and beyond  
José Manuel Menéndez - Universidad Politécnica de Madrid, Spain

**TP 0114** Do benefits justify cooperative systems? A cost-benefit analysis  
Wolfgang Niebel - German Aerospace Center - DLR, Germany

**TP 0223** Resilient communication for the emergency services connected vehicle using satellites  
Ashweeni Beeharee - Satellite Applications Catapult, United Kingdom

**Moderator**  
Paul Kompfner  
ERTICO ITS Europe
**TS 32** Acceptance and Usage of EVs

- **TP 0012** Electromobility experience in the Euroregion Galicia – North Portugal
  Diego Rodríguez Nión - CTAG - Galician Automotive Technology Centre, Spain

- **TP 0019** ICT platforms for electromobility services in European cities
  Guido Di Pasquale - PluService Srl, Italy

- **TP 0137** Electric vehicle charging at off-peak times – an incentives study
  Yvonne Huebner - Newcastle University, United Kingdom

- **SP 0013** Opportunities and threats for the electric two-wheelers in China
  Anne, Hsiao-Hsuan Yu - Viktoria Swedish ICT, Sweden

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**TS 33** Advanced signal control

- **TP 0268** Evaluation of a traffic light preemption system at Oulu region
  Antti Mustaniemi - Ramboll Finland, Finland

- **TP 0011** New traffic signal control strategy based on radar detection
  Jan Kildebogaard - ÅF - Hansen & Henneberg, Denmark

- **SP 0044** Traffic signal control based on autonomic computing
  Kari Koskinen - RSM Traffic, Finland

- **TP 0207** Performance analysis of coordinated signalisations using switching time data
  Felix Rudolph - University of Kassel, Germany

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**TS 34** Data handling 2

- **TP 0077** The value of traffic information – theoretical framework and practical insights
  Tomi Laine - Strafica Ltd, Finland

- **TP 0106** Developer communities for effective utilisation of open transport data
  Tero Pirinen - University of Tampere, Finland

- **TP 0107** Transport data marketplace: an analysis of user requirements
  Jens Peder Kristense – KeyResearch, Denmark

- **TP 0170** Finnish road traffic information service, powered by cloud
  Jussi Lehtonen - Esri Finland Oy, Finland

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**Moderator**

- **Fabio Galatioto**, Newcastle University, United Kingdom

- **Jean-Philippe Méchin** – CER-EMA, France

- **Yves Capelle** Telespazio, France
**Technical/Scientific Sessions**

**Thursday 19 June 2014**

**09:00 - 10:00**

**TS 35 Travel Planner 2**

- **TP 0089** Transferability issues of open access data for applications-based traveller information
  - Nick Hounsell - University of Southampton, United Kingdom

- **TP 0205** Evaluating the benefits of new mobility apps for disabled travellers
  - Bryan Matthews - University of Leeds, United Kingdom

**Room 205**

**TP 0224** Northern Irelands BusTrak - real time passenger information enhancement project
  - Scott Fennelly - Arup Consulting, Ireland

**Thursday 19 June 2014**

**09:00 - 10:00**

**TS 36 Road User Charging 3**

- **SP 0046** Impacts of differentiating road charges, what is the added value?
  - Gideon Mbiyazenyu - Department of Computer Science and Engineering, Blekinge Institute of Technology, Sweden

- **TP 0085** Fair and intelligent mobility pricing in Finland – A dream or reality?
  - Josef Czako - Kapsch TrafficCom, Austria

**Room 206**

**TP 0143** Co-existence of privacy keeping traffic flow information and road charging
  - Volker Vierroth - T-Systems International GmbH, Germany

**TP 0160** Kilometre charging for passenger cars in Finland
  - Tuomo Suvanto - Ministry of Transport and Communications Finland

**Thursday 19 June 2014**

**09:00 - 10:00**

**TS 37 New approaches to learning**

- **TP 0037** Mobility learning sites for kids - mobile and stationary
  - Gertraud Oberzaucher - AustriaTech, Austria, Austria

- **TP 0063** Promoting new ITS measures through virtual training
  - Anna Gemzell - Swedish Transport Administration, Sweden

**RM 207**
## TS 38 Logistics & freight transport

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<td>SP 0017</td>
<td>Selection of container security sensors for risk management</td>
<td>Antti Permala - VTT, Finland</td>
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<tr>
<td>SP 0049</td>
<td>Vehicle tracking-based RFID technology and applied to automotive supply chain</td>
<td>Redouane Khenmar - Esigelec, France</td>
<td></td>
</tr>
<tr>
<td>TP 0115</td>
<td>ITS and smart grid networks for increasing live shellfish value</td>
<td>Adrian Coronado - Royal Holloway University of London, United Kingdom</td>
<td></td>
</tr>
<tr>
<td>TP 0158</td>
<td>Traffic disturbances and congestion cause extra costs and low effectiveness</td>
<td>Jussi Sauna-aho - Vemosim Ltd, Finland</td>
<td></td>
</tr>
</tbody>
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## TS 39 Automated driving - Legal and institutional issues

<table>
<thead>
<tr>
<th>Session</th>
<th>Title</th>
<th>Presentation Title</th>
<th>Speaker</th>
</tr>
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<tbody>
<tr>
<td>TP 0062</td>
<td>Connected Vehicles - who’s fault?</td>
<td>Jason Moss – Mouchel, United Kingdom</td>
<td></td>
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<tr>
<td>TP 0148</td>
<td>Driving automated without regulations?</td>
<td>Gerben Feddes - RDW, The Netherlands</td>
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<tr>
<td>TP 0153</td>
<td>How Finland is going to use the automated vehicles’ opportunity?</td>
<td>Sami Mynttinen - Finnish Transport Safety Agency, Finland</td>
<td></td>
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<tr>
<td>TP 0233</td>
<td>Autonomous vehicles: A perspective from the California DMV</td>
<td>Bernard Soriano - California Department of Motor Vehicles, United States</td>
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</tbody>
</table>

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## TS 40 EV range and battery management

<table>
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<tr>
<th>Session</th>
<th>Title</th>
<th>Presentation Title</th>
<th>Speaker</th>
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</thead>
<tbody>
<tr>
<td>SP 0027</td>
<td>Hybrid buses with continuous energy transfer from tram network</td>
<td>Oscar Olsson - Viktoria Swedish ICT, Sweden</td>
<td></td>
</tr>
<tr>
<td>TP 0028</td>
<td>Range estimator for electric race car</td>
<td>Álvaro Arrúe Lobera - Applus IDIADA, Spain</td>
<td></td>
</tr>
<tr>
<td>SP 0031</td>
<td>User interaction with remote access to range-related information in BEVs</td>
<td>Thomas Franke - Technische Universität Chemnitz, Germany</td>
<td></td>
</tr>
<tr>
<td>TP 0118</td>
<td>Co-operative commuting assistant for enhanced personal electromobility</td>
<td>Rachelle Mulder - Arup, Ireland</td>
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</tbody>
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## TS 41 End user apps

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<tr>
<th>Session</th>
<th>Title</th>
<th>Presentation Title</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>TP 0116</td>
<td>Social network enabled multimodal planner, AVATAR</td>
<td>Samson Tsegay - SWARCO MIZAR, Italy</td>
<td></td>
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<tr>
<td>TP 0121</td>
<td>AccessMyCity mobile application: Open data for accessible transportation routes</td>
<td>Marc Yvon - IBM Europe, France</td>
<td></td>
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<tr>
<td>TP 0202</td>
<td>Building smart cities – social technologies in intelligent transportation systems</td>
<td>Rachelle Mulder - Arup, Ireland</td>
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SW01  Women in ITS – Professionals and Stakeholders

Description
Engaging more women in ITS, and ensuring that women who enter the ITS profession stay on, is key not just to equality but also to help plug the skills shortage opening up in many countries. We need to make ITS a sustainable career choice for young men and young women. This session offers an opportunity to hear from successful women ITS professionals what their ideas are about this, and also about the exciting ITS implementations they have worked on.

Organiser
• Jennie Martin, ITS United Kingdom, United Kingdom

Moderator
• Sharon Kindleysides, Kapsch TrafficCom, United Kingdom

Speakers
• Natalia de Estevan Ubeda, Transport for London - TfL, United Kingdom
• Gertraud Oberzaucher, Austriatech, Austria
• Olga Landolfi, TTS Italia, Italy

SW02  Do not let large datasets go to waste!

Description
In Field Operational Tests, FOTs, huge datasets are gathered about the interaction between ITS and drivers. Re-using the data for further analysis, to answer new research questions and to serve as reference data would be ideal. We will take a closer look at the data available from three large European FOT projects, euroFOT, DRIVE C2X and UDRIVE and SHRP2 from the US, and address the following question how can we benefit from the data?. A new European support action, FOT-Net Data, will explain its role in facilitating data sharing.

Organiser
• Sami Koskinen, Technical Research Centre of Finland - VTT, Finland

Moderator
• Yvonne Barnard, ERTICO - ITS Europe

Speakers
• Trent Victor, Volvo Cars/SAFER, Sweden
• Satu Innamaa, Technical Research Centre of Finland - VTT, Finland
• Jonas Bärgman, Chalmers University of Technology/SAFER, Sweden
• Clement Val, CEESAR, France
• Sami Koskinen, Technical Research Centre of Finland - VTT, Finland
**SW03 Interoperability - the ultimate capability for ITS**

**Description**
Interoperability is a capability of different systems, using different HW and SW implementations, to successfully synchronise their communication processes and thus to exchange data. This is a critical challenge for ITS applications and services. The ERTICO Partnership Interoperability Interest Group, addressing in particular standardisation and testing issues is looking forward to provide leading guidelines about interoperability and develop a global framework to address common needs. This workshop intends to present the views from different sectors of the ERTICO partnership and discuss how to reach a common understanding during the round table session.

**Organiser**
• François Fischer, ERTICO - ITS Europe

**Moderator**
• François Fischer, ERTICO - ITS Europe

**Speakers**
• Markus Riederer, Federal Road Office - FEDRO, Switzerland
• Paul Spaanderman, TNO, The Netherlands
• Tugrul Güner, Kapsch TrafficCom AG, Austria
• Ralf Weber, Qualcomm, Germany
• Jörn Edlich, Cetecom, Germany
• Reiner Sauer, Dekra, Germany

**SW04 Traffic control using low penetration rate cooperative detection**

**Description**
Traditional traffic surveillance requires expensive installation and maintenance. Smartphones and V2X technology create opportunities to replace traditional surveillance. This stakeholder workshop will first present the challenges with traditional traffic surveillance, followed by the solution of the European funded COLOMBO project. This includes data fusion to make the most out of the few available data and to make a traffic light able to deal with lower quality information. The last part of the session will compare the work with other contemporary research and is followed by a discussion with the audience.

**Organiser**
• Robbin Blokpoel, Imtech Traffic & Infra, The Netherlands

**Moderator**
• Robbin Blokpoel, Imtech Traffic & Infra, The Netherlands

**Speakers**
• Jérôme Härri, Institute EURECOM, France
• Riccardo Belletti, University of Bologna, Italy
• Daniel Krajzewicz, German Aerospace Center - DLR, Germany
• Hans van Lint, Technical University of Delft, The Netherlands
• Anders Torp Madsen, Municipality of Copenhagen, Denmark
Stakeholder Workshops

Wednesday 18 June 2014
16:00 - 17:30

SW05  TN-ITS and INSPIRE team up on ITS spatial data

Description
TN-ITS aims to facilitate the timely exchange of information on changes in critical road attributes between road authorities and providers of ITS map data. ITS applications need maps that are highly up-to-date for these attributes. Given that road authorities make the changes, they are therefore the most immediate and reliable source for the information. The main prerequisites for such exchange are accurate data maintenance by the road authorities and a harmonised data exchange infrastructure. The overall goal is to gradually roll out this approach across Europe. TN-ITS plans to align with the INSPIRE spatial data infrastructure, by embedding its specification in INSPIRE as an extension for ITS spatial data of the theme Transport Networks, while adding elements that are essential for ITS spatial data but not currently offered by INSPIRE, such as data maintenance and location referencing. During 2014 TN-ITS and INSPIRE representatives will team up for joint collaborative work on the TN-ITS specification, and setting up a Transportation Pilot across a representative group of countries to demonstrate TN-ITS data exchange and the use of the INSPIRE framework in a new, non-environmental sector. This joint session with the INSPIRE congress in Aalborg, by video link will report on these efforts.

Organiser
• Kees Wevers, TN-ITS
• Graham Vowles, JRC

Moderators
• Kees Wevers, TN-ITS (Helsinki)
• Graham Vowles, JRC (Aalborg)

Speakers
• Representative from European Commission, DG MOVE (Helsinki)
• Trond Hovland, ITS Norway and NPRA (Aalborg)
• Francesco Pignatelli, JRC (Helsinki)
• Olaf Østensen, Kartverket, and chair ISO/TC 211 (Aalborg)
• Tom Jensen, TomTom (Helsinki)
• Ahmed Nasr, HERE (Helsinki)
• Representative from INSPIRE (Aalborg)
II01 From smart apps to smart cities: The future of driving

Description
New data, innovative apps, and a focus on multimodal transportation are changing the way we view and interact with cars. The explosion of transportation-related data provides an opportunity for drivers to make smarter decisions that reduce driving time, emissions, and congestion. At a systems level this makes our cities more efficient and productive, but also more sustainable and vibrant. Join a discussion with transportation innovators and stakeholders as they discuss the future of driving, the future of connected transportation technology, and the changing ways we get from A to B.

Organiser
• Justin Bean, Streetline, United States

Moderator
• Eric-Mark Huitema, IBM, The Netherlands

Speakers
• Samuel Loyson, Orange, France
• Asdrubal Pichardo, Streetline, Germany
• Vernon Tjon-Soei-Len, Zipcar, United Kingdom
• Vinuth Rai, Toyota, United States

II02 How efficiently could smart-parking-management change the way we live cities?

Description
From the most common to the most amazing one, every vehicular journey ever taken anywhere on earth starts and ends with parking. Smart parking management is one of the most promising innovations in ITS aimed at reducing congestion and pollution, helping citizens choose the best transportation mean, and much more. Rather than technology, we will focus on users experience and more precisely on how parking operators and municipalities see the future of global parking management. The goal of this round table is to share visions for smart parking management.

Organiser
• Julien Henaut, Sterela, France

Moderator
• Julien Henaut, Sterela, France

Speakers
• Bruno Martin, Urbis-Park, France
• Eric Klein, Cerema, France
• Frédéric Massing, City of Metz, France
• Julien Henaut, Sterela, France
II03  Showcase benefits of ITS solutions

Description
Successful ITS deployment in Europe and worldwide requires fully informed decisions. An ITS solutions showcase in a real life environment is very effective to raise awareness of policy makers and decision makers on benefits that ITS solutions can bring for safer, smarter and cleaner transport and mobility for people and goods. Invited speakers will introduce major events in 2014 and 2015 that will provide unique opportunities to achieve this deployment challenge, including demonstrations in 2014 ITS World Congress in Detroit and 2015 ITS World Congress in Bordeaux, and iMobility Challenge event in Brussels.

Organiser
• André Reix, TOPOS Aquitaine, France

Moderator
• André Reix, TOPOS Aquitaine, France

Speakers
• Scott Belcher, President and CEO, ITS America, United States
• André Perpey, Geoloc Systems, France
• Siebe Turksma, Imtech Traffic & Infra, The Netherlands
• Gabriel Simcic, Fédération Internationale de l’Automobile - FIA
• Jean-Philippe Méchin, Centre For Studies and Expertise on Risks, Environment, Mobility, and Urban and Country Planning - CEREMA, France
• Michel Parent, INRIA, France

II04  Future of call centers in connected vehicle services eco-system

Description
Telematics, including emergency call, roadside assistance, concierge assistance and fleet management services began with vehicles linked via wireless communications to live operators at emergency assistance and logistics dispatch centres. Today, most car and truck manufacturers offer some form of integrated telematics with human operators providing emergency and assistance services. Five trends will have a significant effect on the future need for call centres and human operator: safer and more dependable cars that will not break down; car-to-car and car-to-infrastructure communication; mobile apps enabling personal search for services, by-passing call centres; real-time language translators; eCall direct from cars to PSAPs. A group of experts with long experience in this topic will discuss these issues and their effects on call centres in a round table format.

Organiser
• Michael Sena, Michael L. Sena Consulting AB, Sweden

Moderator
• Michael Sena, Michael L. Sena Consulting AB, Sweden

Speakers
• Kim Madsen, SOS International, Denmark
• Olivier Coquille, Allianz Group Assistance, France
• Semen Fokin, Cesar Satellite, Russia
II05 Smart travel applications for an innovative and sustainable mobility

Description
The reduction of carbon emissions in transport is a major aim. Innovative and sustainable mobility concepts are required whereas smart travel applications based on ICT to inform travellers or commuters about existing transport alternatives with the purpose to enable multi-modal trips. Based on the user preferences in terms of time, cost and carbon footprint heterogeneous information sources related to traffic, environment and weather needs to be integrated. The aim of the Special Interest Session is the discussion of current experiences, existing barriers and future outlooks of mobile travel assistant applications.

Organiser
- Philipp Gilka, German Aerospace Center - DLR, Germany

Moderator
- Philipp Gilka, German Aerospace Center - DLR, Germany

Speakers
- Marco Boero, Softeco Sismat srl, Italy
- Dorota Szeligowska, DG MOVE, European Commission
- Karl Rehrl, Salzburg Research, Austria
CONGRESS PROGRAMME

Interactive Sessions

The Interactive Sessions will take place in a dedicated area in the Exhibition.

**Tuesday 17 June 2014**
11:00 - 12:30

**Moderator** Sharon Kindleysides
Kapsch, United Kingdom

**Tuesday 17 June 2014**
14:00 - 15:30

**Moderator** Paul Potters
Cachelot B.V., Netherlands

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**IS 01** Emerging ITS services 1

**TP 0034** Local road weather services for vehicles
Timo Sukovaara - Finnish Meteorological Institute, Finland

**SP 0033** Evolving winter road maintenance ecosystems in Finland and Hokkaido, Japan
Tuomo Kinnunen - University of Oulu, Department of Industrial Engineering and Management, Finland

**TP 0025** Winter maintenance quality monitoring and stopping distance evaluation
Jukka Pahkala - Noptel Oy, Finland

**TP 0186** ICT as enabler of strategic collaboration in open business ecosystem
Pekka Stenman - Ramboll Finland Oy, Finland

**TP 0022** Effectiveness of the road weather information services
Heidi Saarinen - Strafica Oy, Finland

**TP 0269** Development of ITS multi-service from idea to deployment
Heikki Mantsinen - VTT, Finland

**TP 0138** Assessing the impacts of a reindeer warning service
Elina Aittoniemi - VTT Technical Research Centre of Finland, Finland

**TP 0228** Integrity and assurance for joint regulatory and private sector telematics
Sten Wandel - Lund University, Sweden

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**IS 02** Performance monitoring

**TP 0003** Smartly maintaining Dublin’s ITS infrastructure
Trevor Platt - Nicander, United Kingdom

**TP 0068** Improvement of travel time calculation in the city of Lyon
Eric Klein - CEREMA DTeCV, France

**TP 0091** ITS Device data used to monitor truck roadway performance
Edward McCormack - Norwegian University of Science and Technology, Norway

**TP 0130** Implementation of MAVE® - tun in the Elbtunnel in Hamburg
Peter Böhnke - ave Verkehrs- und Informationstechnik GmbH, Germany

**TP 0180** The accuracy levels of vehicle detectors commonly used in Korea
Sang Hyup Lee - Korea Institute of Construction Technology, South Korea

**TP 0259** Monitoring of traffic equipment in the cloud
Matthias Nolle - SWARCO TRAFFIC SYSTEMS GmbH, Germany
**Interactive Theatre**

**Tuesday 17 June 2014**
16:00 - 17:30

**Moderator**
Daniel Hobbs
AECOM, United Kingdom

**IS 03** Emerging ITS services 2

**TP 0050** Universal recognition platform
Tami Koivuniemi - Finnpark Oy, Finland

**TP 0090** SYNCRO, an innovative public procurement of road data gathering systems
Jean-Christophe Maisonbe - Conseil général l’Isère, France

**TP 0183** Evaluating user acceptance of C2X systems by focus group discussions
Elina Aittoniemi - VTT Technical Research Centre of Finland, Finland

**SP 0055** Traffic sign recognition and accurate positioning for driver assistance systems
André Welzel - Professorship of Communications Engineering, Technische Universität Chemnitz, Germany

**TP 0015** Trusted GNSS for ITS applications: The TACOT project’s results
Alexandre Allien - FDC, France

**TP 0027** WiTag – The mobile phone as a wireless reflector tag?
Henrik Eriksson - SP Technical Research Institute of Sweden, Sweden

**SP 0030** Potential of the foot as a haptic interface for future communication and vehicle controlling
Christoph Liedecke - IVK Institute for Internal Combustion Engines and Automotive Engineering, University of Stuttgart, Germany

**TP 0065** Vehicle navigation system using UHF RF-ID and magnetic declination
Takeshi Kawamura - Kitami Institute of Technology, Japan

**TP 0073** Measuring the true integrity of navigation in real-time
Antti Lange - FKF-Corporation Oy, Finland

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**Wednesday 18 June 2014**
09:00 - 10:30

**Moderator**
Fabio Galatioto
Newcastle University, United Kingdom

**IS 04** Enforcement and safety

**TP 0111** Active pedestrian safety and road surface estimation within ARTRAC
Janne Hákki - VTT Technical Research Centre of Finland, Finland

**TP 0002** Information security and cyber risks implementation on IP/MPLS network
Peter Crumpton - Fluor, United Kingdom

**TP 0048** The new integrated approach in registering speeding violations in Tatarstan
Alexander Dagan – Inspectra, Russia

**TP 0098** An evaluation of variable speed limit system on D100 highway
Zekai Karagöz - ISBAK INC, Turkey

**TP 0109** The ‘F’ factor - not only smart but flexible
Daniel Scholz – VITRONIC, Germany

**TP 0162** Tunnel management integrated approach: a rule based ITS+SCADA solution
Gerald Hirschmann - Evon Automation, Austria

**TP 0182** Use of ETS in the detection of overweight trucks
Karel Feix – Kapsch Telematic Services, Czech Republic

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**Interactive Theatre**
Interactive Sessions

**Wednesday 18 June 2014**
11:00 - 12:30

**IS 05 Strategies and tools for urban mobility**

**TP 0036** ITS - a key to unlock urban movement
Steve Kears - Transport for London, United Kingdom

**TP 0102** Helsinki’s ITS strategy supporting deployment of national strategies
Mikko Lehtonen - Helsinki City Planning Department, Finland

**TP 0123** INSIGHT and its effect on ITS in Dublin City
Dermot Kinane - Dublin City Council, Ireland

**TP 0152** Enhanced urban traffic management by intelligent street lighting
Thomas Novak - SWARCO FUTURIT, Austria

**TP 0188** Structures of traffic management and control in German cities
Judith Gessenhardt - TU München, Germany

**TP 0220** Scaling up of ADAS’ Traffic Impacts to German Cities
Judith Gessenhardt - TU Munich, Germany

**Interactive Theatre**

**Wednesday 18 June 2014**
14:00 - 15:30

**IS 06 Innovations in mobility management**

**SP 0264** The future role of cost-benefit analysis in ITS research
Wolfgang Schulz - Zeppelin University, Germany

**TP 0204** Future concepts for traffic related services
Tero Jokilehto - Ministry of Transport and Communications, Finland

**TP 0018** Seamless coach service through the European wide service platform
Guido Di Pasquale - PluService Srl, Italy

**SP 0053** A mixed reality interface for real-time public transportation
Antti Numinen - AALTO/HiIT, Finland

**TP 0058** Dutch innovation push through subsidised in-car projects: the Brabant Case
Giovanni Huisken - MAP Traffic Management, The Netherlands

**TP 0064** Bread and, ITS Circuses
Jason Moss – Mouchel, United Kingdom

**TP 0176** i-BUS platform for bus access control in art cities
Paolo Guarneri - Autostrade Tech S.p.A., Italy
### IS 07 Innovations in parking

**TP 0195**  ITS for a Smart City  
*Gerard Keogh - Arup, Ireland*

**SP 0038**  Full-automatic parking registration and payment – in principle GNSS-based road pricing  
*Niels Agerholm - Aalborg University, Denmark*

**TP 0072**  Better parking management  
*Richard Harris - Xerox, United Kingdom*

**TP 0146**  Automatic car parking payment via telepass parking system  
*Paolo Guarnieri - Autostrade Tech S.p.A., Italy*

**TP 0244**  Shared parking portal – higher use rate of company car parks  
*Kalle Toiskallio - Helsinki Institute for Information Technology, Finland*

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### IS 08 Freight and fleet logistics

**TP 0184**  Intelligent cargo ecosystem - Impact on resilient supply chains and emissions  
*Martin Dobler - Vorarlberg University of Applied Sciences, Austria*

**TP 0226**  Fleet management system as actuator for public transport priority  
*Niels van den Bosch - Imtech Traffic & Infra, The Netherlands*

**SP 0009**  Evaluation method for freight logistics innovations  
*Antti Permala - VTT, Finland*

**SP 0029**  GNSS-based assistance system for automated shunting of freight trains  
*Andreas Trzuskowski - RWTH Aachen University, Germany*

**SP 0056**  Solving new urban freight distribution problems involving modular electric vehicles  
*Wassila Aggoune-Mtalaa - Public Research Centre Henri Tudor, Luxembourg*

**TP 0161**  Using Floating Truck Data to optimise port logistics  
*Simon van Merrienboer - TNO, The Netherlands*

**TP 0164**  Camera technology for detecting intrusion in trucks and trailers  
*Antti Permala - VTT Technical Research Centre of Finland, Finland*

**TP 0232**  GeoTransMD  
*Jean-Philippe Mechin - CEREMA, France*
The Commercial Paper Sessions will take place in a dedicated area in the Exhibition.

**CP01 Commercial ITS Services 1**

**CP 0009** Innovative multi-service with mobile apps creates driving and data ecosystem  
Vesa Helkkula - Aplicom, Finland

**CP 0020** People-friendly smart ticketing: single travel card, several cities, real-time information  
Jarkko Jaakkola - Tieto Finland, Finland

**CP 0004** Road taxation and usage-to-cash multi-service-provider solution for new intelligent traffic  
Taija Engman - Good Sign, Finland

**CP02 Commercial ITS Services 2**

**CP 0015** The digital road authority: Personal smart travel advice  
Maaike Hoogeboom - Trinite, The Netherlands

**CP 0010** Kutsuplus – a novel, automated real-time demand responsive public transport Service  
Kari Rissanen - Helsinki Regional Transport Authority, Finland

**CP 0006** Vedia FOR FITSrus multi-service pilot for Helsinki – St.Petersburg Corridor  
Lauri Lankinen - Vediafi Oy, Finland

**CP03 Commercial ITS Systems 1**

**CP 0256** Commercial relevance of ITS systems: 2 Siemens technology examples  
Kubilay Altun - Siemens AG, Germany

**CP 0267** Enhanced image processing  
Frank Robert Kjeldsø - Q-Free, Norway

**CP 0019** Positioning of tram vehicles using RFID system  
Mehmet Ali Dagli - Istanbul Transportation CO., Turkey

**CP04 Commercial ITS Systems 2**

**CP 0014** A hybrid approach for ADAS algorithm development  
Norman Mattern - BASELABS GmbH, Germany

**CP 0012** A new adaptive system for megacities  
Fatih Gündoğan - İSBAK A.Ş., Turkey

**CP 0008** Advanced positioning for EFC integration in GNSS Receiver Chipset  
Joaquin Cosmen Schortmann - GMV, Spain

**CP 0001** NeuroCamera - multifunctional traffic technology tool based on standardized components  
Piotr Bardadyn - Neurosoft Sp. z o.o., Poland

**CP02 Commercial Theatre**

**CP 0003** European pre-commercial partnerships in multimodal real-time journeyplanners & services, MM RTP  
Michel Boerrigter - Calendar42, Netherlands

**CP 0002** Measuring real-time traffic data quality based on floating car data  
Jeroen Brouwer - TomTom, The Netherlands

**CP 0017** Priority for public transport and logistics services in ImFlow  
Siebe Turksma - Imtech Traffic & Infra, The Netherlands

**CP03 Commercial Theatre**

**CP 0005** Improving the efficiency of road weather data collection  
Paul Bridge - Vaisala Inc, United States

**CP 0012** A new adaptive system for megacities  
Fatih Gündoğan - İSBAK A.Ş., Turkey

**CP04 Commercial Theatre**

**CP 0014** A hybrid approach for ADAS algorithm development  
Norman Mattern - BASELABS GmbH, Germany

**CP 0012** A new adaptive system for megacities  
Fatih Gündoğan - İSBAK A.Ş., Turkey

**CP 0007** Economic potential of Intelligent Transport Systems, ITS in Luxembourg  
Anja Barth - MRK Management Consultants GmbH, Germany
Bordeaux Aquitaine 2015
Welcome to ITS World Congress

www.itsworldcongress.com/bordeaux-2015/
DOWNLOAD THE ITS2014 CONGRESS APP

App networking zone
Located in the exhibition

New Feature: BADGE SCANNER

This year, thanks to the Badge Scanner, increase your contact portfolio and business opportunities. This can easily be done: download the application and use your smartphone to scan the badge of your interlocutor.

It is simple, no risk of losing their contact details and it is green!
Workshop “ITS for Urban Mobility and deployment strategies”

16 June 2014, 9.00-14.45 Room 216

The ERTICO Partnership initiative “ITS for Urban Mobility” aims to offer cities and ITS industry the opportunity to work closely together in an informal way to find effective tools for co-developing sustainable mobility. More than 50 cities are currently involved in the ERTICO activities, in projects where the purpose is to solve mobility challenges with the help of ITS solutions such as: Traffic and Urban Logistics management, Energy efficiency in road transport for both people and goods, Cooperative systems, Vehicle sharing and Electro-mobility...

During this joint workshop ERTICO Partners and guests will present relevant examples of how Cities and Industry could work together and will answer the following questions:
• How to create a platform for informal discussion and why?
• What benefits for cities and ERTICO Partners?
• How to implement fully deployed collaborative mobility services in urban areas?
• What link between ITS and Smart Cities?

The first session will enable public and private representatives to discuss issues and guidelines, and to share knowledge and experience, and will be followed by a panel debate. In addition, the new EC co-funded project OPTICITIES will be introduced to the ITS community during this part of the workshop.

Compass4D and CO-GISTICS, two ongoing projects leading the deployment of C-ITS in Europe will demonstrate solutions (hardware, vehicles and roads equipped with C-ITS) during the second session.

Moderator: Rasmus Lindholm

Relevant links:
www.opticities.com
www.compass4d.eu
www.cogistics.eu
Secure and Safe Smart Cities EUROPE 2020

The satellite Workshop "Secure and Safe Smart Cities EUROPE 2020" addresses the complex issue of Societal Security of future Smart European cities and communities. It provides different stakeholders with the opportunity to present and to discuss how future Smart Cities will improve the security of European citizens and communities with intelligent ICT systems and innovative management methods and tools.

The Workshop agenda includes the presentation of Digital Services for Societal Security Demonstration Site that is planned to be established near Helsinki-Vantaa international airport jointly by the City of Vantaa, Laurea University of Applied Science, TIEMS Finland SIEla association and other partners. The site will be the Center for digital services demonstration, research, education, and the Living Lab for Societal Security.

The Workshop topic of Societal Security in the context of Smart Cities and Smart Environments includes several important domains such as:

- public safety and emergency management systems and tools
- smart border crossing at sea, land and air ports
- eHealth and telemedicine
- secure and safe intelligent traffic systems (ITS)
- intelligent critical infrastructure monitoring and protections systems
- intelligent environmental monitoring
- intelligent eGovernment systems for Safety and Security
- intelligent city planning and monitoring systems and tools
- intelligent ICT systems, networks applications

The multidisciplinary Workshop promotes system of systems approach in societal security, system integration and cross sector interoperability.

The Workshop key notes session includes the presentations of leading experts visions on future Secure Smart Cities public services and applications, new technologies and concepts, Living Labs experiences, techno-societal research.

The Workshop invites representatives of city administrations and public organisations, Industry and SMEs, research and academia to participate and to discuss their interests, views and achievements at poster and panel sessions.

The workshop will host the meeting of European Alliance of Secure Smart Cities and Living Labs for Societal Security.

**Date and time:** Monday 16 June 2014, 09:00-15:00

**Room:** 203b

**Agenda:**

09:00-09:20  Workshop opening
09:20-12:00  Key notes speakers’ session
12:00-13:00  Lunch
13:00-15:00  Discussion session
15:00-17:00  Alliance of Secure Smart Cities and Federated Living Labs for Societal Security meeting
20:00-22:00  Social event

**Workshop web site and registration link:**

**Contact information:** siela@nic.fi
We are happy to announce the SIMPLI-CITY workshop "Business meets Science" which will take place in the framework of the ITS European congress in Helsinki (http://www.itsineurope.com/its10/) on the 16 of June 2014.

Experts from science and business will discuss future trends of Information Systems with a special focus on Road User Information Apps and services. The interactive workshop includes a mixture of presentations and discussions and features a panel session.

Take the opportunity for knowledge exchange and participate at this SIMPLI-CITY workshop.

The workshop is free of charge and includes coffee break and lunch.

Find the detailed agenda here:

Website link:
www.simpli.city.eu

Registration link:
www.simpli-city.eu

Contact for Registration:
Volker Hoffmann
hoffmann@fgm.at

Date and time:
Monday 16 June 2014, 09:30-15:00

Room: 204
Ancillary Events

ecoDriver Stakeholder Workshop: in-vehicle applications to help drivers save fuel and reduce emissions

Environmentally friendly driving, or eco-driving, is an increasingly important topic given the contribution it can make to saving fuel and reducing carbon emissions. Drivers often do not realise the amount of influence their driving style has on their vehicle’s fuel consumption, which can lead to significant unnecessary emissions and increased fuel costs. The 4-year ecoDriver project (2011 to 2015) is developing and trialling applications to encourage the adoption of green driving through dedicated multimodal Human Machine Interfaces (HMI). The aim is to achieve a 20% reduction of CO₂ emissions and fuel consumption for road vehicles where the ecoDriver system is used.

This workshop, which takes place during the crucial Field Operational Test (FOT) phase of ecoDriver, is geared both to technical and non-technical stakeholders. It is particularly aimed at:

- Industry representatives, such as vehicle manufacturers or ICT system suppliers, who are involved in promoting or implementing eco-driving solutions
- Fleet owners or operators and driver training organisations interested in ways to encourage changes to driving styles which will reduce fuel costs and emissions, as well as maintenance costs for their vehicles
- Researchers, consultants and academics, involved in assessing driving behaviour, HMI issues or FOTs
- Public authorities and agencies which commission research or invest in vehicle technology or green driving
- Standardisation experts involved in driving and HMI topics.

Delegates will:

- Learn about the different ecoDriver applications (integrated, after-market and nomadic solutions)
- Learn how fleet operators can benefit from back office analysis tools, to improve their environmental performance and reduce costs
- Look at and give feedback on the different HMI solutions
- See the progress of the trials currently underway using 12 different vehicle fleet in 7 European countries
- Be able to discuss the opportunities and limitations of eco-driving solutions and strategies to improve acceptance and to promote common standards in an open marketplace.

Date and time:
Monday 16 June 2014, 12:45 - 14:45
Room: 209

Participation in the event is free, but registration is required at www.ecodriver-project.eu
Amitran Final Conference: methodology for assessing the CO₂ effects of ICT for transport

Deployment of ITS has the potential to make a significant contribution to reducing CO₂ emissions. However, until now there has been no standard methodology for assessing or estimating such benefits.

Amitran is a 35-month EU project which has developed a methodology and tools for assessing the effects of deploying ITS applications on CO₂ emissions. Its scope is passenger and freight transport in Europe by road, rail, inland waterway, and short sea shipping. Following the Amitran methodology will assist transport planners and researchers in performing reliable impact estimates. It also provides officials in public administrations, infrastructure owners, transport operators, and industry with an approach which allows better comparability of results from different studies.

The final conference is geared both to technical and non-technical stakeholders. It is particularly aimed at:

- People who commission research, studies and investment in ITS, who work in the area of transport policy or operations, or in the areas of climate change, pollution reduction, and energy efficiency. These include public sector officials (cities, regions, national governments, EU level), public agencies, infrastructure owners, transport operators, etc.

- Industry representatives, such as vehicle manufacturers or ICT system suppliers, who are involved in environmental assessment of their products for the purposes of benchmarking, promotion, or innovation.

- Researchers, consultants, and academics, who carry out modelling and assessment studies.

Delegates will learn about the Amitran methodology and how to apply it. Demonstrations will be provided using real use cases. The different approaches to assessment will be explained, including the benefits and limitations of each one. Online tools developed in the project will also be presented, with interactive sessions, including the Amitran guidance, a knowledge base for scaling up results and interfaces between different model types.

Date and time:
Monday 16 June 2014, 09:00-14:45
Room: 215

Participation in the event is free, but registration is required at www.amitran.eu

Lunch will be provided.
Compass4D & CO-GISTICS joint workshop ‘Deployment strategies for C-ITS’

How can we ensure a successful deployment of cooperative systems?  
What are the best practises to make C-ITS sustainable?  
How can C-ITS effectively increase energy efficiency and reduce transport costs?

Attend the Compass4D/CO-GISTICS workshop and see what these two projects in the front line of C-ITS deployment are doing in European cities and logistic hubs.

Compass4D is a CIP (Competitiveness and Innovation Programme) project that is concretely deploying cooperative services to improve road safety, increase energy efficiency and reduce congestion.

CO-GISTICS (started 1 January 2014) is also a CIP project that has a specific focus on C-ITS deployment applied to logistics. Together, they engage 11 cities (Arad, Bordeaux, Bilbao, Copenhagen, Helmond, Frankfurt, Newcastle, Thessaloniki, Trieste, Verona, Vigo) and leading companies and organisation from 11 countries (Belgium, Denmark, France, Germany, Greece, Italy, Romania, Spain, Sweden, The Netherlands, UK).

The workshop will consist of short presentations showing concrete hardware, vehicles and roads equipped with C-ITS. The active interaction with the audience will be highly encouraged. This workshop is also part of the workshop ‘ITS For Urban Mobility – New business architecture and deployment strategies.

Organiser:  
Anita Toni (a.toni@mail.ertico.com)

Moderator:  
Pierpaolo Tona

Speakers:  
André Perpey, (GEOLOC) Bordeaux  
Evangelos Mitsakis, (CERTH) Thessaloniki  
Ralf Willenbrock, T-Systems  
Pascal Huther, HOLM  
Francisco Sanchez, (CTAG) Vigo

Date and time: Monday 16 June 2014, 13:15 - 14:45

Location: Messukeskus, Expo and Convention Centre, room 216

Website link: www.compass4d.eu, www.cogistics.eu

Welcome to the Canadian - Nordic Partnering in Mobility as a Service Ecosystem!

This is a unique opportunity for innovative solution providers from both sides of the Atlantic to team up, drive business development and, potentially, enter into product development partnerships supported by the international Eureka technology funding program.

Participating companies from Finland and Canada have the chance to present ITS offerings to potential partners in respective markets. Major companies including HERE from Nokia will also present opportunities for cooperation and collaboration.

Participating SME’s in the ITS space will also learn how the Eureka program can be accessed to fund product and service development.

Date and time: Monday 16 June 2014, 10:00 - 14:30

Website link and registration: https://tapahtumat.tekes.fi/event/itspartneringlunch

Contact for Registration: Euan Scott, Canadian Trade Commissioner +46 8 453 3013 euan.scott@international.gc.ca

This ancillary event is supported by Tekes, ITS Finland, ITS Canada and the Canadian Embassy.

Location: Messukeskus, Expo and Convention Centre Helsinki, room 207 (Messuaukio 1, 00521 Helsinki, Finland)
Ancillary Events

Safety and Mobility of Vulnerable Road Users – How do ITS applications affect safety and mobility of VRUs

organised by the VRUITS project in collaboration with iMobility VRU WG

The VRUITS project, which is sponsored by the European Union’s 7th Framework Programme, aims at providing recommendations regarding ITS applications for the improvement of the safety and mobility of Vulnerable Road Users (pedestrians, cyclists, PTWs, special user groups, elder drivers).

The VRUITS partners have identified a set of applications which have a high potential to improve the safety and mobility of VRUs. A first qualitative assessment of their safety and mobility impacts has been performed, and its results will be discussed during the workshop, together with various implementation scenarios. Participants will gain a better knowledge on the possible impacts of ITS applications for VRUs, and on the applications which have the most potential to improve their safety and mobility.

The planned outcome of the workshop is the selection of the 10 most promising applications, for which a quantitative assessment will be performed in the second half of 2014.

We request your expertise in selecting applications for further assessment in the project.

Date and time: Monday 16 June 2014, Ravintola Limone, Helsinki,

More information: www.vruits.eu

Contact person: Sylvain Haon, shaon@polisnetwork.eu, Johan Scholliers, VTT, +358405370204, johan.scholliers@vtt.fi

TN-ITS General Assembly meeting

On Tuesday 17 June 2014 the Transport Network ITS Spatial Data Deployment Platform (TN-ITS) will hold its second General Assembly meeting. The meeting will be organised as an open breakfast session during the 10th ITS European Congress in Helsinki, on Tuesday 17 June 2014. Apart from its members, TN-ITS cordially invites anyone who is interested in the mission and activities of TN-ITS, to attend this session. There will be an informal part with keynote speeches and presentations with information on the mission and status of TN-ITS, and on the progress of the work in the past year, and also including some time for questions and discussion. This will be followed by a short formal part, the annual general meeting, also open to non-members, but with voting and debate restricted to Active members of TN-ITS.

Breakfast will be served from 07:00, the actual meeting will take place 07:30 - 08:45. Registration for this session is required, and can be done by simply sending an email to info@tn-its.eu, indicating name, affiliation and country of the participant.

The mission of TN-ITS is to facilitate and foster, throughout Europe, the exchange of ITS-related spatial data between public road authorities as data providers, and ITS digital map providers and other parties as data users, in accordance with Priority Action 1.3 of the ITS Action Plan.

Date and time: Tuesday 17 June 2014, 07:00-08:45

Room: 203a

Website link: www.tn-its.eu

Registration link / contact email: info@tn-its.eu
Interoperability is a capability of different systems, using different HW and SW implementations, to successfully synchronise their communication processes and thus to exchange data. Therefore interoperability is a critical challenge for ITS applications and services. Ensuring interoperability is necessary to create trust in ITS technologies and warranty seamless deployment.

Through its “Interoperability Interest Group”, the ERTICO Partnership addresses interoperability issues with a specific focus on Standardisation and Testing. The Interoperability Interest Group has identified that distinct processes are used by different stakeholders and useful lessons learned can be taken from other IT sectors.

The ERTICO Partnership, representing all ITS sectors, is in position to provide leading guidelines and develop a global framework to address common needs concerning interoperability.

This workshop intends to present the views from different sectors of the ERTICO partnership and discuss how to reach a common understanding during the round table session.

Format: Workshop with formal presentations followed with a round table
Info and registration:
https://www.eventbrite.fr/e/interoperability-the-ultimate-capability-for-its-tickets-10940101137
Date and time: Tuesday 17 June 2014, 09:00-10:30
Room: 204
Enable Interactive Traffic Management: first general assembly of the TM2.0 Platform

The traffic management industry is offering well-proven ITS solutions for improving traffic flow and safety using a large diversity of sensors along the roads. Traditional traffic data collection and monitoring (e.g. flow, speed, acc.), including probe data, is a mature technology with a clear business model.

Current navigation systems in the vehicles use traffic information to provide singular route advices to the drivers missing sometimes the overall traffic circulation plans, traffic regulations, or recommended routes put in place by the traffic management centres. This is especially the case when notable events are foreseen, such as important sport or cultural events, demonstrations, constructions or public transport strikes, but also when specific plans need to be enforced, in case of smog warnings, evacuation alerts, or low-emission zones.

The TM2.0 platform coordinated by ERTICO – ITS Europe is an attempt to find solutions to improve the collaboration between traffic management and control and individual vehicles being routed by their navigation devices. Further efforts to information flow from vehicles to traffic centres, and back, could lead to dramatic change in the way roads are dynamically operated and drivers are routed at all levels: from intersections, road sections to regional levels.

Tomtom and SWARCO-MIZAR are proud to announce the establishment of the TM2.0 platform and invite all potential stakeholder to this inaugural session.

Agenda:
- Welcome, ERTICO – ITS Europe
- Keynotes on interactive traffic management, EC DG Move
- Introduction to TM2.0, Tomtom and Swarco-Mizar
- Formal vote constituting TM2.0
- Discussion

Website link: http://www.tm20.org

The first General Assembly is open to observers. Please send an email info@tm20.org with name, affiliation, phone number and email address by 5 June to register. The votes are reserved to the founding members.

Contact email: Maxime Flament, ERTICO-ITS Europe, m.flament@mail.ertico.com

Date and time: Wednesday 18 June, 14:00-15:30, Room 203a
### Technical Visits

During the Congress, delegates are invited on Technical Tours to visit some of the many examples of innovative ITS deployments that Finland can offer. You can register your participation through the congress registration website.

#### TECHNICAL VISIT 1:
**Finnish Transport Agency**

**Gulf of Finland Vessel Traffic Centre**

Vessel Traffic Service in Finland is organised in order to improve traffic flow and safety in waterways and canals. The aim is to prevent dangerous meeting and overtaking situations and congestion. In Finland the vessel traffic services are operated by the Finnish Transport Agency. VTS centres monitors the vessel movements and when necessary informs vessels about any dangers threatening them. Vessel traffic services include information, navigational assistance and traffic organisation.

**Date, time and duration:**
- Tuesday 17 June 2014
  - 10:00
- Wednesday 18 June 2014
  - 10:00

Each tour will take 1.5 to 2 hours including pick up and drop off at the Exhibition Centre.

**Cost per person:**
Cost: 10 € + VAT (24%)

**Maximum # Participants:**
25 per tour

#### TECHNICAL VISIT 2:
**Vaisala**

**Road Weather Science and Technical Tour – Vaisala Headquarters**

Learn about the latest technology used to monitor and measure road conditions around the world. Vaisala’s road weather tour will take a deeper look at how the technology works, show how it is made and discuss the many applications. Vaisala is a leader in the development of weather sensors and technology for many applications used around the world by meteorological agencies, transportation agencies, airports, industrial applications, life sciences, maritime, and energy producers. Join us for a fun and informative tour about the science of weather.

**Date, time and duration:**
- Tuesday 17 June 2014
  - 14:00
- Wednesday 18 June 2014
  - 10:00

Each tour will take 3 hours including pick up and drop off at the Exhibition Centre.

**Cost per person:**
Cost: 10 € + VAT (24%)

**Maximum # Participants:**
50 per tour
TECHNICAL VISIT 3:
VTT Technical Research Centre

Innovative electric vehicles and services for public transport in VTT lab - Research facilities for vehicles and electric powertrains

VTT’s research facilities for vehicles and electric powertrains consist of chassis dynamometers for both heavy- and light-duty vehicles, a battery pack test cell and a battery lab. The heavy-duty chassis dynamometer is equipped with analysers for measuring emission from conventionally powered vehicles, and with a battery simulator, creating broad opportunities for testing and developing electric vehicles. The battery simulator is further connected to the climate-controlled battery pack test cell, which allows testing of different battery packs in varied climate conditions. The light-duty vehicle test cell is also equipped with climate-control and emission-measurement devices.

VTT has had a significant role in cutting down emissions from public transport in Helsinki, creating a data base for city bus emissions that includes results of emission measurements from all city bus types in use in the Helsinki region. VTT measures emissions from all new bus models entering the market, and makes follow-up measurements for the most common buses in the region. The local public transport authority (HSL / HRT) uses real emission data provided by VTT for tendering of bus services.

A technical visit to VTT’s research facilities will introduce you to methods of battery research and emission- and energy-consumption measurements. Transport to the site will be arranged by electric bus, and guests will have the opportunity to drive a test cycle with an electric bus on the heavy-duty chassis dynamometer.

TECHNICAL VISIT 4:
Finnish Meteorological Institute

Visit to FMI weather forecasting center

FMI serves general public, authorities, and variety of businesses and industries in weather related issues.

In Finland the whole transport sector is facing extremely challenging weather and climate conditions as all the other infra sectors and these conditions has to be taken into account in all activities. We can proudly say our transport segment has unique expertise concerning harsh winter weather conditions and has created state of the art solutions for sea transport, aviation, public transport, road transport and pedestrians. By Visiting FMI Weather Forecasting Center you can explore our solutions using best practices of weather related information and ITS.
# Technical Visits

## TECHNICAL VISIT 5:
**Traffic Management Centre of Helsinki Metropolitan Area**

Traffic management in Helsinki Region is based on close teamwork of the authorities. Representatives of the city of Helsinki, police department and public transport authorities operate in the same centre along with the traffic management centre of the Finnish Transport Agency. As a result of the cooperation, the efficiency of the transport system and the productivity of the operations are improved. In addition, synergy benefits can be achieved through shared facilities, information systems and communication links and most importantly by the opportunity to tap each other’s expertise.

### Date, time and duration:
- **Tuesday 17 June 2014**
  - 10:00 and 14:00
- Each tour will take 1.5 to 2 hours including pick up and drop off at the Exhibition Centre

### Cost per person:
- 10 € + VAT (24%)

### Maximum # Participants:
- 25 per tour

## TECHNICAL VISIT 6:
**Smart Parking by Finnpark and the ITS Factory in the city of Tampere**

The Congress Train will take you on a trip to Finland’s “smartest” traffic city and to Finnpark’s P-Hämppi which has just received the award for Best Car Park in Europe.

The city of Tampere and the surrounding district plays a big part as a pioneer of smart traffic solutions. The transport system is efficient, safe, reliable and predictable. A joint project involving the City of Tampere and specialist companies has created a smart traffic innovation, research and development project entitled the ITS Factory. During the visit we will have the opportunity to see the beautiful city of Tampere, get to know ITS Factory projects and Finnpark’s underground parking garage P-Hämppi.

P-Hämppi received the EPA (European Parking Association) award for best car park in Europe in 2013. P-Hämppi is in the premier league of car parks and embodies cutting-edge architecture, guidance services and technical solutions. During the P-Hämppi visit we will demonstrate Finnpark’s “Spot Your Car” system, which received the best guidance application in Europe award in 2013 (Viscom), and also the best interior lighting in Finland. P-Hämppi is an excellent example of how we develop people focused parking solutions and integrate parking as a part of city services.

The journey starts with presentations and lunch during the train journey and proceeds with the ITS-focused city tour and site visit to Finnpark’s P-Hämppi car park and ends with demonstration of the Tampere ITS Factory.

### Date, time and duration:
- **Wednesday 18 June 2014**
  - Meeting point at Messukeskus at 9:30
  - The journey takes 7 hours including train travel.
  - We will be back in Helsinki well in advance of the Gala Dinner.

### Cost per person:
- 50 € + VAT (24%)
  - includes lunch

### Maximum # Participants:
- 30
TECHNICAL VISIT 7:
Finnish Transport Safety Agency Trafi & UAR Finland Ltd

Road Excellence Center in Vantaa

Located only 15 minutes from Helsinki airport, we are the largest site in Finland providing hands-on driving training in challenging, year-round slippery conditions. Thanks to the local climate, we have ice and snow for part of the year, however special materials used to maintain winter-like conditions even during summer months.

Our goal is to offer facilities for inspiring and safe driving experience to drivers all ages. We encourage people to learn more today, so they will drive more safely, taking the environmental aspects into account. Since 1993, more than 400,000 students have received this experience, supervised by our highly skilled training instructors. Thanks to the top-notch services of the site, it is very popular amongst driving schools but also perfectly suited for groups as well as professional drivers for test and presentation purposes.

Besides driving training and theory lessons, the Road Excellence Center includes hands-on demonstrations tools to gain awareness of consequences should a road accident occur. Supervised by our teachers, visitors gain understanding on some simple preventive actions to be taken to minimize risk of having an accident. The latest implementation is the Tunnel of Choices, a tool forcing an individual to make quick decisions while exposed to virtual group pressure.

Our operation is approved by the Finnish Transport Safety Agency. Welcome!

Date, time and duration:
Thursday 19 June 2014
10:00 and 14:00

This tour takes 3 hours such as Vaisala tour after it

Cost per person:
10 € + VAT (24%)

Maximum # Participants:
20 per tour

Website:
www.uar.fi

TECHNICAL VISIT 8:
Finnish Science Centre Heureka

Smart City at Heureka – The Finnish Science Centre

Smart City is an immersion in the modern, sustainable online urban landscape. It offers participation, ubiquitous intelligence and sustainable urban planning. The visitor is offered a driving experience of the near future; the seat of the air traffic controller and managing of the modern train connection from Helsinki to St. Petersburg. The playful exhibition opens big data by mining the city – making the city mine. Smart City will be guided by a robot.

Smart City exhibition has been designed and developed especially for the ITS Europe conference and it will be opened on Tuesday 17 June at 12:00. Smart City can be visited thereafter during the opening hours of the science centre. Heureka is conveniently only 10 min north from the conference venue by train, and 10 min from the airport by car.

Date, time and duration:
Monday 16 June 2014
10:00 – 17:00

Friday 20 June 2014
10:00 – 17:00

Saturday 21 June 2014
10:00 – 18:00

Delegates are invited to make their own way to the Finnish Science Centre Heureka. No pre-registration is required.

Cost per person:
Free entry with delegate pass, open for all delegates

How to get there?
www.heureka.fi/en/how-to-find-us

Website:
www.heureka.fi/en
TECHNICAL VISIT 9:

You have an unique opportunity to visit onboard of the most powerful Finnish icebreaker, IB Urho. The Finnish icebreaker base is situated at the heart of Helsinki, next to the Ministry for Foreign Affairs. This excursion will take you around the vessel from the engine room up to the bridge. You will hear how the icebreaker works and what the icebreaking means to Finland where close to 90% of the foreign trade is being transported via sea routes and the shoreline and sea areas freeze every year.

Arctia Shipping Ltd. carries over 120 years of icebreaking and ice management know-how. Arctia owns and operates the Finnish icebreaker fleet. Wintertime we make sure that maritime traffic to and from Finnish ports run without delays. On the Baltic Sea Arctia’s icebreakers assist annually 1000-4000 vessels to/from Finnish harbors and keep oil recovery capacity for European Maritime Safety Agency (EMSA) on the Northern Baltic Sea.

Summertime our polar icebreakers operate globally to assist mainly the energy cluster with icebreaking, ice management, underwater and various other offshore related services in the Arctic waters and other areas.

Arctia provides icebreaking, ice-management and oil combating services. The annual turnover is approximately 90 million USD. There are close to 300 professionals and eight (8) icebreakers serving the customers. Arctia Shipping is a state-owned company.

Welcome to feel the brute force of an icebreaker!
iMobility Challenge Demos Helsinki

On the first day of the Congress (Monday 16 June) iMobility Challenge organises a public day where members of the public can come and test for themselves latest intelligent vehicle technologies. The event will take place right outside the Congress centre. Demonstrators will include technology providers and auto manufacturers who will demonstrate advanced driver assistance systems and new in-vehicle applications made possible thanks to vehicle connectivity. To promote awareness of the benefits of ecodriving, one of the demonstrations will be an ecodriving competition. Members of the public and congress delegates will have a chance to take a demo car drive and put their efficient driving abilities to the test. There are different kinds of demos people will be able to try for themselves.

**Autonomous Braking**

Volvo will demonstrate its City Safety system, whereby cars brake autonomously to a halt when the sensors detect an obstacle (pedestrian) and the driver doesn’t pay attention and brake. People will be able to test the system for themselves.

**Parking Assistance**

Both Citroën and Ford will demonstrate parking assistance systems that detect suitable space for a car and guides the vehicle in without the driver touching the steering wheel. All the driver needs to do is to accelerate and brake.

**Electric Cars**

Everybody is talking about electric cars, but quite few people in Finland have actually driven an electric car. In iMobility Challenge Helsinki public will have a chance to test drive Nissan Leaf and Ford Focus Electric cars.

**Eco-driving**

A company called Greater Than organises an eco-driving competition where the public can test how ‘smart’ they drive. The Enerfy app scores drivers according to the how energy efficient their driving is. Finnish F1 driver Valtteri Bottas will also take part in the competition and people can have a chance to challenge his score. Thus there will be an opportunity to test your driving abilities against those of all other participants, but also see how you fare against a professional driving champion.

**Vehicle Data**

Helpsen and Driveco are going to demonstrate intelligent ways to make people drive smarter. Their applications collect vehicle data and provide feedback to the users on their driving style.

The EU-funded iMobility Challenge project (coordinated by the FIA, and with project partners ERTICO, CLEPA, ACEA and VTT) hosting the competition promotes efficient, clean and safe mobility through the use ICT systems and vehicle connectivity. The event on 16 June is organised thanks to the support of the Finnish automobile and touring club: Autoliitto.

If your company would like to be present at the iMobility Challenge public day with a technology demonstration, please contact susanna.suokonautio-hynninen@autoliitto.fi

Read more about iMobility Challenge: www.imobilitychallenge.eu
Experience the Finnish White Night

Have you heard of endless light of Finland during the Summer? It is one of the most remarkable features to experience.

The event is going to be held during the Finnish Midsummer week and it is all about relaxing and having fun. That is why we want to welcome you to enjoy and network with your colleagues in this special atmosphere. Maybe you know that the White Night is a synonym for Midsummer and it is defined also as a sleepless night, so be prepared.

To add some more magic, we want you to get the best of Finland’s all four seasons. Aurora Borealis is a once-in-a-lifetime experience for many and now we want to give you the opportunity to experience the Northern Lights in the middle of the Summer. There will also be the possibility to find out what can be made of ice. You will be really able to touch and work the ice.

The White Night will offer you different tastes of Finland, live music and some unforgettable surprises.

All Helsinki Congress participants are invited to celebrate an unforgettable ‘White Night’ at the Cable Factory on Wednesday 18 June starting at 19:00.

And for the football fans: a 2014 FIFA World Cup football lounge has been foreseen!

Welcome to White Night - the bar is open!
be global. be one.

**oneworld** is proud to be the official airline alliance of the 10th ITS European Congress.

The **oneworld** network covers almost 1,000 destinations in more than 150 countries, so we can get you anywhere you need to be.

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General Information

Welcome to Helsinki!

www.visithelsinki.fi/en/come/welcome-helsinki
www.visithelsinki.fi/en/see-and-experience
www.visithelsinki.fi/en/come/tourist-information

Between East and West
Throughout its 450-year history, maritime Helsinki has swung between the currents of Eastern and Western influences. The lifestyle in the second most northern capital city in the world is full of contrasts and fascinating habit cultures. Influences from both the East and West are visible in the city’s architecture, culinary culture, events, traditions and many other elements that are unique to the way of life in Helsinki.

Helsinki’s architecture is typified by Nordic minimalism and refinement, yet at the same time the styles of different periods can be clearly seen. The contrasts between Eastern and Western influences are most noticeable in the city’s two main cathedrals. The unostentatious Lutheran Helsinki Cathedral (Tuomiokirkko) and the Byzantine-Russian redbrick Uspenski Cathedral with its golden cupolas compete for attention within a stone’s throw of each other. Eastern and Western influences can also be tasted in Helsinki’s culinary culture.

Helsinki – the place to be in
Helsinki is an attractive and active year-round city break destination. The second most northern capital city in the world changes with the seasons and offers lots to do throughout the year. Over 3000 popular events are held in Helsinki each year. In summertime the terraces, parks, seaside boulevards and nearby islands are filled with people enjoying the outdoors. The nights are white and the evening entertainment stretches into the early hours of the morning. Even on the hottest days of the year, the breezes off the sea remain fresh. Between the two extremes of summer and winter, spring is a time when the days grow longer with breathtaking speed as nature reawakens, while autumn is a time of beautiful foliage and mild days with romantic dark evenings.

Top 3 Most Liveable Cities in the World
British lifestyle magazine Monocle ranks the best cities of the world every year in its Quality of Life Survey. Vibrant street life and design culture together with new creative trends in food culture and fashion played a role in Helsinki’s ranking among the top 3 most liveable cities in the world in 2013.

Best Places to Travel in 2014
Travel + Leisure Magazine praises Helsinki for innovative thinking and avantgarde landmarks as well as adventurous chefs and exciting cuisine. Read for yourself and get ready to book your trip!
Visit the city with the Helsinki Card!

What is the Helsinki Card

Helsinki Card is a city card with a number of benefits that will help you to discover and experience Helsinki plus save money, time and energy during your visit.

Moreover, the Helsinki Card Region entitles card holders to unlimited free travel on public transport in Helsinki, Espoo, Kauniainen and Vantaa.

If you want to visit the Helsinki Card website please go on http://www.helsinkiexpert.com

Benefits and discounts

• FREE Sightseeing tour by bus or boat, second tour for 10€
• FREE unlimited travel on public transport and ferry to/from Suomenlinna Sea Fortress
• FREE entry to major museums and sights
• FREE Helsinki Card guide book (maps and complete tourist info)

• Restaurants and shops (10-20% off)
• Finnair City Buses (35% off)
• Discounts on tours and cruises to Tallinn and St. Petersburg
• Leisure activities: sauna, swimming, bowling etc.
• Concerts (up to 20% off)
• Heureka, Sealife and much more

Guide book

With the Helsinki Card you will get a complete Guidebook with instructions, maps and detailed information of all the benefits and discounts in five languages (English, German, Russian, Swedish and Finnish).

All of the major sights and attractions covered by the Helsinki Card are included in this book with detailed opening hours and contact information.

Prices

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<th>Validity</th>
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<td>1 day / 24 hours</td>
<td>39 €</td>
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</table>

Sales Points

• If you have booked your accommodation through the 10th ITS European Congress website, all the hotels sell the Helsinki Card at their reception desk.
• If you want to buy it in advance, please go on http://www.helsinkiexpert.com
• It is also possible to buy it at the reception desk of the Messukeskus venue (Holiday Inn HECC)
The Exhibition & Convention Centre is an adaptable event centre, which will cater for almost any needs, wishes and event themes. Team meetings for a few people, AGMs involving thousands, or magnificent corporate celebrations. With plenty of exhibition space and parallel meeting rooms of different sizes to choose from, even the biggest international congresses can fit under the same roof.

Entrance to the Exhibition & Convention Centre’s multi-storey car park is from Ratapihantie street; for navigators use the address Ratapihantie 17. Enter the congress car park from Ratamestarinkatu street; for navigators use the address Ratamestarinkatu 14.

The Exhibition & Convention Centre is located in Pasila, just a few kilometres from Helsinki city centre. It is served by excellent transport connections in all directions. For environmental reasons, we recommend the use of public transport to all of our visitors!
How to get there

During the 10th ITS European Congress, each delegate will receive upon arrival a free Travel Card.

The 30 € Travel Card can be used to pay for journeys on all public transport services in Helsinki, Espoo, Kauniainen and Vantaa, from the 16 till the 19 June.

By Air

Around 200 international flights a day arrive at Helsinki-Vantaa Airport, which is situated 19 kilometres from the centre of Helsinki and can be reached by car in approximately 25 minutes. You can also take taxi, the Finnair airport bus or Bus 615 to the Central Railway Station. A taxi to city centre costs approximately 35-40 €.

How to get to Messukeskus: Helsinki–Vantaa Airport is 13 kilometres from the Exhibition & Convention Centre. This journey is easier by taxi, which takes approximately 15 minutes.

By Car

Eventhough we suggest you to get to the conference centre by public transportation, you can easely reach Messukeskus by car. Moreover there are many parking spaces at the venue.

For the delegates the Conference park is definitely the best choice. It has about 250 spaces. For those who will just come for the iMobility challenge on Monday, the the multi-storey car park on the north side is the best.

Parking fee 10 € (incl vat) for each time you enter the parking.
By Rail
There are excellent train connections from Helsinki to all major towns in Finland as well as to Lapland. There is also a daily train service to St. Petersburg and Moscow. The Central Railway Station is a landmark in itself in Helsinki.

How to get to Messukeskus: All local and long-distance trains stop at the Pasila railway station, just a 300-metre walk from the Exhibition & Convention Centre. Trains from the city centre to Pasila take just five minutes.

By Sea
There are daily ferry services to Helsinki from Estonia, Sweden and Germany. All the ferry companies offer also possibility to take a car with you. Helsinki can also be reached by ferry from Russia as well as Poland.

Bus
Buses from all around Finland arrive at the central bus station, from the largest cites approximately every hour.

How to get to Messukeskus: Buses 506 and 69 stop at the Exhibition & Convention Centre. The nearest stop for buses 504 and 505 is located at the Pasila railway station.

Tram
How to get to Messukeskus: Trams 7A, 7B, and 9 stop in front of the southern entrance of the Exhibition & Convention Centre. All of these trams go to the city centre.

Taxis
A taxi journey from the airport to the Exhibition & Convention Centre costs around 35 €.

A taxi rank can be found in front of the Southern Entrance of the Exhibition & Convention Centre. The taxi journey from the Exhibition & Convention Centre to Helsinki city centre costs around 20 €.

You can book a taxi online on Taksihelsinki (http://www.taksihelsinki.fi/en/content/ordering-taxi) or by phone.

Telephone numbers

<table>
<thead>
<tr>
<th>Phone numbers</th>
<th>Calls from outside Finland</th>
</tr>
</thead>
<tbody>
<tr>
<td>Order through the Helsinki Taxi Centre</td>
<td>0100 0700</td>
</tr>
<tr>
<td>Payment by Taksi Helsinki Card</td>
<td>0100 0777</td>
</tr>
<tr>
<td>Advance booking</td>
<td>0100 0600</td>
</tr>
<tr>
<td>GSM positioning</td>
<td>0100 7777</td>
</tr>
<tr>
<td>Autobooking (code required)</td>
<td>0100 7007</td>
</tr>
<tr>
<td>Text message order</td>
<td>13170</td>
</tr>
<tr>
<td>Disabled taxi</td>
<td>0100 85 500</td>
</tr>
</tbody>
</table>

Price: 1.17 € / call + local network charge + 0.25 € / 10 s
Autobooking and disabled taxi 1.17 € /call + local network charge
Text message order 1.70 € per each sent message

Banking
When in Finland, look for the OTTO sign to retrieve money.
“Otto.” ATMs display information in English Swedish or Finnish.
Finland’s currency is the euro €.

You can find nearest “Otto.” ATM location via this link: http://www.tassa.fi/?id=21536
If you want more information about banking in Finland: http://otto.fi/en/cash-from-the-wall/
Internet Access at the Venue
Wireless internet is available throughout the entire venue free and is free of charge.

Congress Language
The official language of the Congress is English.

Security
Attendees are requested to wear their badge for admission at all times. This includes the entry to the Congress Sessions, Exhibitions, all visits and the social programme events. Any lost badge will incur a 20 € fee.

Programme Changes
The organisers are not liable for any changes that are made to the Congress programme. Please visit the website www.itsineurope.com for most recent updates and changes.

Presentations
Presentations will be made available on www.itsineurope.com after the Congress.

Proceedings
All sessions during the Congress will be captured. Sponsor, exhibitor and congress delegates as well as speakers will have complimentary online access to captured content via the Congress’ website www.itsineurope.com
An email notification with the access details and instructions will be sent within a week after the final congress day.
Should you have any questions in the meantime, please send an e-mail to info@itsineurope.com
## Registration Information

<table>
<thead>
<tr>
<th>Type of participant</th>
<th>Type of pass</th>
<th>Early until 11/04</th>
<th>Standard from 12/04</th>
<th>Onsite from 14/06</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Congress Delegate**</td>
<td>Full event</td>
<td>940 €</td>
<td>1,160 €</td>
<td>1,260 €</td>
</tr>
<tr>
<td></td>
<td>One-day (TUE/WED)</td>
<td>540 €</td>
<td>690 €</td>
<td>790 €</td>
</tr>
<tr>
<td></td>
<td>One-day (THU)</td>
<td>420 €</td>
<td>570 €</td>
<td>680 €</td>
</tr>
<tr>
<td>2 Exhibitor/Sponsor Delegate**</td>
<td>Full event</td>
<td>840 €</td>
<td>990 €</td>
<td>1,090 €</td>
</tr>
<tr>
<td>3 Speaker/Moderator**</td>
<td>Full event</td>
<td>790 €</td>
<td>790 €</td>
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</tr>
<tr>
<td></td>
<td>One-day (TUE/WED)</td>
<td>470 €</td>
<td>470 €</td>
<td>Unavailable</td>
</tr>
<tr>
<td></td>
<td>One-day (THU)</td>
<td>375 €</td>
<td>375 €</td>
<td>Unavailable</td>
</tr>
<tr>
<td>4 Student Delegate/ Speaker/ Moderator**</td>
<td>Full event</td>
<td>240 €</td>
<td>240 €</td>
<td>240 €</td>
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<tr>
<td></td>
<td>One-day</td>
<td>110 €</td>
<td>110 €</td>
<td>110 €</td>
</tr>
<tr>
<td>5 Finnish Public Sector**</td>
<td>MON</td>
<td>Free of charge</td>
<td>Free of charge</td>
<td>Free of charge</td>
</tr>
<tr>
<td></td>
<td>TUE/WED</td>
<td>220 €</td>
<td>220 €</td>
<td>220 €</td>
</tr>
<tr>
<td></td>
<td>THU</td>
<td>170 €</td>
<td>170 €</td>
<td>170 €</td>
</tr>
<tr>
<td></td>
<td>Full event</td>
<td>520 €</td>
<td>520 €</td>
<td>520 €</td>
</tr>
<tr>
<td>6 Journalist/Media</td>
<td>Full event</td>
<td>Free of charge</td>
<td>Free of charge</td>
<td>Free of charge</td>
</tr>
<tr>
<td>7 Accompanying Person*</td>
<td>Full event</td>
<td>Free of charge</td>
<td>Free of charge</td>
<td>Free of charge</td>
</tr>
<tr>
<td>8 Exhibition Visitor*</td>
<td>Full event</td>
<td>Free of charge</td>
<td>Free of charge</td>
<td>28 €</td>
</tr>
<tr>
<td>9 Exhibition Stand personnel* per sqm</td>
<td>Full event</td>
<td>Free of charge</td>
<td>Free of charge</td>
<td>Free of charge</td>
</tr>
<tr>
<td>10 Additional Exhibition Stand personnel*</td>
<td>Full event</td>
<td>145 €</td>
<td>145 €</td>
<td>145 €</td>
</tr>
<tr>
<td></td>
<td>White Night***</td>
<td>-</td>
<td>100 €</td>
<td>100 €</td>
</tr>
</tbody>
</table>

* no access to sessions, see details for more info.
** Fee is subject to 24% VAT
*** Fee is subject to 14% VAT.
Registration fees and information

Congress Delegate
The Delegate registration fee includes access to the Congress sessions on the day(s) selected, all Congress documents and proceedings, a Congress bag, light lunches and refreshments on the day selected, as well as access to the Opening Ceremony, Welcome Reception and Closing Ceremony. The ticket also includes access to the Exhibition. Please note that the Congress registration fee does not include the White Night or Accommodation.

Exhibitor / Sponsor Delegates
As an Exhibitor or Sponsor delegate, you have access to attend all Congress sessions and the Exhibition. Registration also includes all Congress documents and proceedings, a Congress bag, light lunches and refreshments as well as access to the Opening Ceremony, the Welcome Reception and Closing Ceremony. Please note that the Congress registration fee does not include the White Night or Accommodation.

To qualify as an exhibitor or sponsor delegate you must be attending on behalf of an exhibitor or sponsoring company. The company name on your badge must be the same as the contracted company.

Speaker / Moderator*
As a speaker and / or moderator you have access to attend all Congress sessions and the Exhibition on the day(s) selected. Registration also includes all Congress documents and proceedings, a congress bag, light lunches and refreshments as well as access to the Opening Ceremony, the Welcome Reception and Closing Ceremony. Speakers and / or moderators must register through the online registration form available on this page. Paper or session numbers will be requested during the online registration. One speaker per paper and / or presentation is entitled to this discounted rate.

Please note that the Congress registration fee does not include the White Night or Accommodation.

Student Delegate / Speaker / Moderator
The Student (under 30 of age) registration fee includes access to the Congress sessions on the day(s) selected, all Congress documents and proceedings, a Congress bag, light lunches and refreshments on the day selected, as well as access to the Opening Ceremony, Welcome Reception and Closing Ceremony. The ticket also includes access to the Exhibition. Please note that the Congress registration fee does not include the White Night or Accommodation.

Students must register through the online registration form available on this page.

To qualify for this rate, you must be under 30 years old. Furthermore, a scanned copy of your valid international student card or official proof of enrolment from your university stating that you are a full-time student must be uploaded during the registration process to validate the booking. The organisers reserve the right to refuse acceptance of any registration that does not adhere to these requirements.

Finnish Public Sector
Attendees from the Finnish Public Sector are entitled to a discounted rate. You can choose to attend the full event or one-day of your choice. You are entitled to attend all Congress sessions and the Exhibition. Registration also includes all Congress documents and proceedings, a Congress bag, light lunches and refreshments as well as access to the Opening Ceremony, the Welcome Reception and Closing Ceremony. The ticket also includes access to the Exhibition. Please note that the Congress registration fee does not include the White Night or Accommodation.

The organisers reserve the right to request identification to prove eligibility for this discount at any time. No group discount is available for this category.

Journalist / Media
Press is invited to attend the Congress free of charge and is entitled to attend all Congress sessions and the Exhibition. Registration also includes all Congress documents and proceedings, a Congress bag, light lunches and refreshments as well as access to the Opening Ceremony, the Welcome Reception and Closing Ceremony. Please note that the Congress registration fee does not include the White Night or Accommodation.

Press registrations should be made the online registration form available on this page. A scanned copy of your valid press ID must be uploaded during the registration process to validate the booking. For any press queries, please contact Carla Coppola at c.coppola@mail.ertico.com. Members of the press might be selected to attend the Congress and the Exhibition. The organisers reserve the right to refuse acceptance of any registration that does not adhere to these requirements.
Accompanying Person
To qualify as an Accompanying Person you must be attending with your spouse or partner and not be involved in the ITS industry. This registration entitles you to attend the Exhibition for its duration, the Opening and Closing Ceremonies and the Welcome Reception following the Opening Ceremony. Please note that this registration category does not access to the Congress sessions and it does not include the Congress documents and proceedings, a congress bag, light lunches and refreshments during the Congress, the White Night or Accommodation.

Exhibition Visitors
This registration entitles you to attend the Exhibition for the duration of the event. Please note that this registration category does not include access to the Congress sessions and it does not include the Congress documents and proceedings, a Congress bag, lunches or refreshments during the Congress the White Night or Accommodation. Pre-registered visitors will be entitled to register free of charge. Onsite registrations will be charged €28. We advise you to pre-register to save money and avoid queues on the days when the Exhibition is open.

Exhibition Stand Personnel / Badges
This registration entitles you to access and attend the Exhibition for the duration of the event, as well as the Opening Ceremony, Welcome Reception and Closing Ceremony (pre-registration is required). Please note that this registration category does not include access to the Congress sessions and it does not include the Congress documents and proceedings, a Congress bag, the White Night or Accommodation.

Access to lunches or refreshments during the Congress is granted with the Exhibition Stand Personnel badge.

Additional Exhibition Stand personnel*
For each 9m2 purchased, each company is entitled to an Exhibition Stand Personnel badge free of charge. Additional badges can be purchased at 145€/ pass for full event access.

Group Registration
A group registration is available for a group of 10 or more paying Congress Delegates registering for the full event and acceptance is at the discretion of the organisers. Group discounts are only available by sending an e-mail to register@itsineurope.com or by contacting the Registration Manager, Ioana Petricean at +32 (0)2 740 2230. Group registration (10+ registrations made in one transaction only) entitles you to a 10% discount. To qualify for this discount, all delegate names and details must be provided at the time of booking. Attendees that have already registered are not permitted to cancel and rebook under a group discount.

Access to lunches or refreshments during the Congress is granted with the Exhibition Stand Personnel badge.

Early and Standard Payment Rates
For bookings made and paid before 11 April 2014 a discounted ‘early bird’ rate applies. After this date the increased ‘standard rate’ is applicable to all bookings until 14 June 2014. As of this date, the onsite registration fee will be applicable.

Enquiries
For Congress registration and payment enquiries, contact Ioana Petricean or Yoann Antoine via e-mail register@itsineurope.com or by phone at +32 (0)2 743 1550.

For Exhibition registration enquiries, contact Julen Bastarrika via e-mail exhibit@itsineurope.com or by phone at +32 (0)2 743 1570.
Onsite Registration Opening Times
Congress badges will not be sent out before the event. Please ensure you bring your email confirmation with you when you register.

To avoid queuing at the event, Congress attendees are reminded to utilise the early registration starting from Monday 11:00. If you did not register prior to the event, all new onsite registrations must be made with full payment according to the below timings.

<table>
<thead>
<tr>
<th>Day</th>
<th>REGISTRATION EXHIBITION</th>
<th>REGISTRATION CONGRESS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monday 16 June 2014</td>
<td>N/A</td>
<td>11:00-18:00</td>
</tr>
<tr>
<td>Tuesday 17 June 2014</td>
<td>09:00 - 17:00</td>
<td>08:00 – 17:00</td>
</tr>
<tr>
<td>Wednesday 18 June 2014</td>
<td>09:00 - 17:00</td>
<td>08:00 – 17:00</td>
</tr>
<tr>
<td>Thursday 19 June 2014</td>
<td>09:00 -13:00</td>
<td>08:00 – 13:00</td>
</tr>
</tbody>
</table>

Speaker Ready Room Opening Hours
Monday 16 June 2014  11:00-18:00
Tuesday 17 June 2014 07:30-18:00
Wednesday 18 June 2014 07:30-18:00
Thursday 19 June 2014 07:30-12:00

Insurance & Liability
The organisers are not liable for any loss, injury or damage resulting from any action taken or reliance made by you or any third party during the Congress.

The Congress fee does not cover insurance for the delegates. The organisers recommend that delegates take out insurance in their home country to cover pre-journey cancellation for personal reasons and necessary insurance to cover accidents, medical expenses and loss of personal belongings during the trip to Finland.

Currency
All fees will be invoiced and are payable in Euros (€) only.

Payment Information
Payment is required in full before the event. Payment should be made either by credit card or bank transfer.
The following credit cards are accepted: Visa, EuroCard/MasterCard or American Express.

Please make bank transfer to the following bank account:

<table>
<thead>
<tr>
<th>MCI BENELUX S.A.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ING W.S.P. Chien Vert</td>
</tr>
<tr>
<td>Avenue Charles Thilemans 44B, B-1150 Brussels, Belgium</td>
</tr>
<tr>
<td>Account number : 310-1976139-44</td>
</tr>
<tr>
<td>IBAN Code : BE55 3101 9761 3944</td>
</tr>
<tr>
<td>BIC Code: BBRUBEBB</td>
</tr>
</tbody>
</table>

The Organiser reserves the right to refuse admission if payment has not been received at least one week before the Congress opens.
Registration Information

Registration Confirmation

You will always receive confirmation of your registration and a VAT invoice via e-mail. If you do not receive this after registering online, please contact the organisers by sending an e-mail to register@itsineurope.com to ensure your registration has been received.

Delegate Cancellation

Upon receipt of your online registration, your registration is considered confirmed. Cancellations for the Congress registration, social events, technical visits or tours will not be accepted after 11 April 2014 and must be received in writing by the ITS Congress Registration Secretariat. Before this date, an administration fee of 100 € + VAT will be charged. After this date, no refunds will be made.

Please ensure the delegate name, registration number and company is quoted on all correspondence.

Name changes will be charged at 50€ + VAT administrative fee per name, per change.

Technical Visits

The technical visits are organized by the Finnish Organising Committee. All requests for information and communications in connection with these aspects of the event should be directed to Jonna.pollanen@its-finland.fi.

MCI Benelux is acting as an agent for the Finnish Organising Committee solely in the collection of payments related to these technical visits.

Data Protection

In accordance with the data protection act, unless otherwise stated, your job title / company will be used in marketing material for this event. If you do not wish your details to be included, please note you will be asked to tick this option during the registration process.

Passport and Visa

If you do need a visa to attend the Congress, please apply as soon as possible.

All delegates requiring an invitation letter for visa application purposes may request this letter during the online registration. Letters of invitation will not be issued without receiving the registration and payment of the required registration fees. Please note that the organisers will not be able to contact or intervene with any Embassy or Consulate Office on behalf of a delegate.
Who Will You Meet?

Public Authorities, industry shakers and movers, infrastructure operators, research professionals, academics, national ITS associations and other parallel organisations from all areas of transport.

Specifically, CEOs, COOs, Chief Project Officers, Directors, Project and Programme Managers, Engineers, Consultants, Directors of PMOs and Presidents, Vice-Presidents, EU Commissioners and Ministers.

Exhibition Opening Times

- **Monday, 16 June**
  - Official Opening of Exhibition area
  - 16:30 - 19:00

- **Tuesday, 17 June**
  - Exhibition area open
  - 09:00 - 18:00

- **Wednesday, 18 June**
  - Exhibition area open
  - 09:00 - 18:00

- **Thursday, 19 June**
  - Exhibition area open
  - 09:00 - 14:00

Exhibition Themes

Every ITS-related topic is invited for display at the Exhibition. Some of the leading themes are:

- New mobility apps for consumers & businesses – making use of open data
- Smart transactions
- Multimodal network operation at a city, region, national & international level
- Productivity for transport systems including logistics & public transport
- Towards zero emissions
- From connected to automated vehicles

Taking part in the exhibition offers a unique opportunity to

- Build meaningful customer relationships in person throughout the Congress
- Bring your story to life with onsite product demonstrations
- Secure qualified leads that could lead to new business
- Learn about each attendee’s precise purchasing needs and processes
- Strengthen your brand and reputation with an exhibit presence and through highly visible sponsorships

Our focused environment gives you the venue to meet key executives with purchasing responsibility and gives you the opportunity to have an interactive exchange with prospective customers and business partners from a variety of industries across the EMEA region.

Specifications

For more information on future exhibition opportunities, please refer to the congress website: www.itsineurope.com
Exhibitor List

For sponsorship and exhibition opportunities, please contact sponsor@itsineurope.com

<table>
<thead>
<tr>
<th>Company Name</th>
<th>Booth #</th>
</tr>
</thead>
<tbody>
<tr>
<td>AEROSPACE VALLEY</td>
<td>B1</td>
</tr>
<tr>
<td>Allianz für die Region GmbH</td>
<td>F19</td>
</tr>
<tr>
<td>Andata</td>
<td>Start up village</td>
</tr>
<tr>
<td>Austriatech</td>
<td>F25</td>
</tr>
<tr>
<td>Autotrade Tech SPA</td>
<td>G2</td>
</tr>
<tr>
<td>BLIP Systems</td>
<td>E13</td>
</tr>
<tr>
<td>BMIA &amp; Forum8</td>
<td>G4</td>
</tr>
<tr>
<td>Bordeaux - Aquitaine</td>
<td>B7</td>
</tr>
<tr>
<td>CAR2ROAD</td>
<td>B1</td>
</tr>
<tr>
<td>CEREMA</td>
<td>B1</td>
</tr>
<tr>
<td>CETECOM</td>
<td>H18</td>
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<tr>
<td>CGI</td>
<td>Finnish Pavilion</td>
</tr>
<tr>
<td>City of Helsinki</td>
<td>Finnish Pavilion</td>
</tr>
<tr>
<td>City of Tampere</td>
<td>Finnish Pavilion</td>
</tr>
<tr>
<td>Connekt - ITS Netherlands</td>
<td>E23</td>
</tr>
<tr>
<td>CONSEIL GENERAL ISERE</td>
<td>B1</td>
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<tr>
<td>Corenet</td>
<td>Finnish Pavilion</td>
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<tr>
<td>D2I Traffic</td>
<td>G15</td>
</tr>
<tr>
<td>EGIS</td>
<td>B1</td>
</tr>
<tr>
<td>Ericsson</td>
<td>A18</td>
</tr>
<tr>
<td>ERTICO - ITS Europe</td>
<td>D19</td>
</tr>
<tr>
<td>ESR, environmental systems research institute</td>
<td>D6</td>
</tr>
<tr>
<td>Etsi</td>
<td>G11</td>
</tr>
<tr>
<td>European Commission</td>
<td>D11</td>
</tr>
<tr>
<td>FARA</td>
<td>D3</td>
</tr>
<tr>
<td>FIA and iMobility</td>
<td>H24</td>
</tr>
<tr>
<td>Finnish Meteorological Institute</td>
<td>Finnish Pavilion</td>
</tr>
<tr>
<td>Finnish Transport Agency</td>
<td>Finnish Pavilion</td>
</tr>
<tr>
<td>Finnish Transport Safety Agency Traffic</td>
<td>Finnish Pavilion</td>
</tr>
<tr>
<td>FLIR Commercial Systems</td>
<td>E19</td>
</tr>
<tr>
<td>Fraunhofer ESK</td>
<td>F19</td>
</tr>
<tr>
<td>Fraunhofer IFF</td>
<td>F19</td>
</tr>
<tr>
<td>French Ministry of ecology, sustainable development and energy</td>
<td>B1</td>
</tr>
<tr>
<td>Geoswift</td>
<td>D9</td>
</tr>
<tr>
<td>Helsinki Region Transport</td>
<td>Finnish Pavilion</td>
</tr>
<tr>
<td>Imtech Traffic &amp; Infra Oy</td>
<td>G9</td>
</tr>
<tr>
<td>Indagon</td>
<td>Finnish Pavilion</td>
</tr>
<tr>
<td>InfoTripla</td>
<td>Finnish Pavilion</td>
</tr>
<tr>
<td>ITS America</td>
<td>A9</td>
</tr>
<tr>
<td>ITS AUSTRIA</td>
<td>F25</td>
</tr>
<tr>
<td>ITS France</td>
<td>B1</td>
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<tr>
<td>ITS UK</td>
<td>E1</td>
</tr>
<tr>
<td>JET TECNO OY</td>
<td>G1</td>
</tr>
<tr>
<td>Kapsch</td>
<td>C17</td>
</tr>
<tr>
<td>Landesinitiative Mobilität Niedersachsen</td>
<td>F19</td>
</tr>
<tr>
<td>Ministry of Transport and Communications</td>
<td>Finnish Pavilion</td>
</tr>
<tr>
<td>MOBIGIS</td>
<td>B1</td>
</tr>
<tr>
<td>MULTITTOLL</td>
<td>B1</td>
</tr>
<tr>
<td>Navelektro</td>
<td>G5</td>
</tr>
<tr>
<td>NEDAP</td>
<td>H5</td>
</tr>
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<td>Noptel Oy</td>
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* Exhibitor List correct as at time of publication
22nd ITS World Congress
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Trafi’s operations are guided by a vision of Finland’s transport system achieving the highest international level in terms of safety and environmental friendliness. This vision is supported by our efficient and high-quality services.

Trafi places great emphasis on promoting a responsible traffic culture. We work in national, EU and international forums, in addition to monitoring the status of the transport system in a comprehensive manner.

Transport safety and the environment run through everything we do: We provide analyses of the status of safety and the environment as well as information-intensive services. We participate in international co-operation and seek to influence both national and international regulations. We issue permits, approvals and other decisions, and prepare legal rules for the transport sector. We arrange examinations, handle taxation and registration matters, and provide reliable information services. We oversee the transport market as well as compliance with rules and regulations governing the transport system. We ensure the functionality of the transport system, even in emergency conditions and when normal operations are disrupted. We create opportunities for the development of intelligent transport. We inform the public of various transport options. The Rail Regulatory Body also functions as part of Trafi.

**Finnish Transport Agency**

Finnish Transport Agency (FTA) is a multidisciplinary expert organization, responsible for the Finnish transport infrastructure and the overall development of Finland’s transport system. It is in charge of the state-owned roads and railways, as well as the waterways it manages. FTA’s aim is to enable smooth, efficient and safe travel and transport and to promote traffic safety and a balanced and sustainable development of the regions. Well-functioning transport routes to enhance the competitiveness of Finnish businesses as well as smooth and safe travel for traffic users are at the core of the FTA strategy. The agency employs 700 professionals in several locations in Finland, and about 12,000 people indirectly in its various projects. Smart routes and intelligent traffic – for you.

**Helsinki Region Transport (HSL)**

Helsinki Region Transport (HSL) is a joint local authority whose member municipalities are Helsinki, Espoo, Vantaa, Kauniainen, Kerava, Kirkkonummi and Sipoo. HSL began its operations in 2010.

Some 345 million journeys are made on HSL’s transport services annually. HSL’s annual operating income is about €550 million, of which ticket revenue accounted for some 270 million. HSL has 360 employees.

HSL: Plans and organizes public transport in the region and improves its operating conditions. Procures bus, tram, Metro, ferry and commuter train services. Is responsible for the preparation of the Helsinki Region Transport System Plan (HLS). Approves the public transport fare and ticketing system as well as ticket prices. Is responsible for public transport marketing and passenger information. Organizes ticket sales and is responsible for ticket inspections.
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Bordeaux region is committed to make of ITS World Congress 2015, oct. 5th – 9th, a huge success. Bordeaux-Aquitaine combines logistics and geographical advantages with in-depth technological and industrial know-how. These assets allow the development of Intelligent Transportation Systems and companies in our region, particularly in 4 main ITS fields:

- Road navigation & location-based services (LBS)
- Traffic signs, surveillance and safety
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- Logistics

Representing the local authorities, the technological clusters and the economic development agency, our team will welcome you at our booth B1/B7. A unique opportunity to discover the main skills and ITS research projects developed in our region and give you all the necessary information to visit us in 2015.

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Tekes is the most important publicly funded expert organisation for financing research, development and innovation in Finland. We boost wide-ranging innovation activities in research communities, industry and service sectors.

Q-Free
Q-Free is a leading global supplier of products and solutions within ITS (Intelligent Transport Systems) for Road User Charging and Advanced Transportation Management. These two sectors are recognised as fundamental enablers that plays a central role in addressing transportation and mobility issues; relieving traffic congestion, reducing pollution, while in addition improving road safety and greatly increasing the financial return on road investments. With references in every main application area, including highway tolling, truck tolling, congestion charging and parking guidance Q-Free offers a complete range of versatile products, turnkey solutions and professional services based on the most advanced and cost effective technologies. Over the years the company has established a next generation core technology portfolio in all key areas, such as DSRC, ALPR and GNSS.

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The main objective of the FMI is to provide the Finnish nation with the best possible information about the atmosphere above and around Finland, for ensuring public safety relating to atmospheric and airborne hazards and for satisfying requirements for specialized meteorological products. Research and services also serve weather related needs of various traffic sectors. The Finnish Meteorological Institute (FMI) is a research and service agency under the Ministry of Transport and Communications.

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- Think of the 20 experts you would most like to hear from or talk to and 18 of them will be at the Congress
The European Programme Committee, on behalf of ERTICO – ITS Europe, would like to convey heartfelt thanks to all the people who dedicated time and effort in reviewing papers.

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