

Enhancing the transfer of ITS innovations to the market



**D7.3 – Reports on National and International Events
linked to Operation of Innovation Network**

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History

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Executive Summary

The overall objective of Work Package 7 is to facilitate communication among project partners and increase the project visibility in the transport sector, with a global vision of the RTD mechanisms and initiatives and the way to benefit from them. Dissemination activities will help to bring the project achievements to a wider audience than the core partners.

One of the main goals of the project is to build-up an EU ITS e-Innovation Network aimed to globalize the value chain of transport innovations between the engaging partners at EU level. The D7.3 - Reports on National and International Events linked to Operation of Innovation Network, developed under Task 7.2 "Dissemination" and Task 7.4 "Liaison", includes specific dissemination activities and ITS initiatives and events related to the stakeholders of the different transport sectors that are key for the launching and implementation of the T-TRANS ITS Innovation Network.

The dissemination actions developed by the three G-local communities of interests (G-local CIM) in the Region of Central Macedonia (Greece), Galicia (Spain) and Latvia are the origin of the T-TRANS Network. The structure of this network will be multiplied from these three pilots to all project partners regions in the form of recommendations toward the setting of an EU wide network. Liaison activities with transport stakeholders, through the more relevant ITS initiatives at European and worldwide level, allow broadening the scope of the Network, as well.

1. Introduction

This deliverable aims to report about different initiatives and events held during the project which are important for the launching and dissemination of the three pilot nodes that are the ground of the T-TRANS innovation network on ITS.

They can be classified in two different categories:

- Workshops of G-local Communities of Interest to Market organized in the framework of the T-TRANS WP6 for the establishment of the Innovation Network for ITS
- Other ITS initiatives at EU and worldwide level, that are relevant to present the T-TRANS Innovation Network with the intention of fostering the participation of actors and stimulating the creation of inter connected G-local CIMs across participating countries through the T-TRANS node

2. Workshops of G-local Communities of Interest to Market in Greece, Latvia and Spain

2.1 First Workshops of G-local CIMs

During the first year of the project, the WP6 has been committed to one of the main tasks, to design and implement the CIM network in three EU regions: Central Macedonia (Greece), Galicia (Spain) and Latvia.

Once each multi-stakeholder G-local community of interest (companies, technological centers, universities, associations and public authorities) has been established, it has taken place the celebration of the 1st G-local CIM workshops with the following objectives:

1. Provide general information to participants about TTRANS project
2. Inform participants about progress of TTRANS and promote the results of the project, which are published as deliverables in webpage of the project
3. Share the information about the ITS landscape in the region by carrying out the presentations from different ITS application areas
4. Promote TTRANS CIM network and invite participating institutions to join it
5. Discuss challenges and problems related with ITS implementation in the region

The structure of the three agendas was similar:

- Presentation of T-TRANS project, with attention on the available deliverables and the creation of the ITS Innovation Network
- Presentations of different ITS initiatives in the region
- Open discussion or round table about Barriers and opportunities for the implementation of ITS in the region

1st Local G-CIM Workshop in Thessaloniki, June 26th

Co-organized with the TIPS Project

20 participants representing 17 entities (organizations and companies):

- Urban Transportation of Thessaloniki (OASTH)
- Thessaloniki's Integrated Transport Authority (SASTH)
- Egnatia Odos SA

- TrainOse
- SEPVE
- Municipality of Thessaloniki
- ITS Hellas
- South East Europe Research Centre (SEERC)
- Federation of Industries of Northern Greece (FING)
- Compucon SA
- Epikoinonia Ltd
- Sboing
- George Dimitriou & Associates
- Q-PLAN NG
- INTELSPACE
- URENIO Research unit

T-TRANS partners participation: Maria Schoina – INTELSPACE presented the T-TRANS project and Isidoros Passas – INTELSPACE acted as moderator of the open discussion

Other speakers: Q-PLAN North Greece Ltd, University of Thessaly, ITS Hellas, CERTH / HIT, Planning and Resources Directorate at the Organisation of Urban Transportation of Thessaloniki, Epikoinonia Ltd, Compucon SA

1st Local G-CIM Workshop in Vigo, September 24th

Co-organized with ITS Spain/ITS Galicia and CTAG

19 participants representing 12 entities (companies, public bodies, technological centers and associations):

- ATOS
- ACISA
- ICEACSA
- SICE
- ESYCSA
- GRADIANT
- Regional Government of Vigo
- DGT (Traffic General Agency)
- CTAG
- SERNAUTO
- ITS Spain
- ITS Galicia

T-TRANS partners participation: M^a Luisa Soria - SERNAUTO presented the T-TRANS project and Alicia García – ATOS presented the T-TRANS ITS Technologies Roadmap, focused on CS1 and CS3 which are more relevant for Galicia

Other speakers: DGT, Regional Government of Vigo, ESYCSA, ACISA, CTAG, ITS Spain

1st Local G-CIM Workshop in Riga, October 16th

Organized in the frame of RelStat'2013 Conference

35 participants representing 25 entities (Companies, public bodies, academia and research institutes):

- EcoTelematics Ltd.
- Imink Ltd.
- Kemek Engineering Ltd.
- Gefko Baltic Ltd.
- Logotek Ltd.

- SimCorpDevelopmentCentre UK Ltd.
- Austrumlinija Ltd.
- SWD Factory Ltd.
- RMS Ltd.
- X Info Tech Ltd.
- NK Konsultācijas birojs Ltd.
- Complete Payment System Ltd.
- Atlant – TEC Ltd.
- BPcons Ltd.
- Latvian Transport Development and Education Association
- Daugavpils Academic Park
- Latvian Transport Union
- Latvian Logistics Cluster
- Logistics Association
- University of Latvia
- Transport and Telecommunication Institute
- Riga Technical University
- LDZ JSC
- Autoosta JSC
- Rigas Karte Ltd.

T-TRANS partners participation: Mihails Savrasovs presented the T-TRANS project and Irina Yatskiv presented the T-TRANS Network G-local Communities of Interest and acted as moderator of the round table

Other speakers: Latvian State Roads Ltd, Blue Shock Bike, EcoTelematics Ltd, Rigas Karte Ltd, Jelgava city municipal agency, SVARI.

The result of these workshops was very positive. All participants showed great interest in the cases presented about ITS initiatives in the different areas and they also shared the need to make these kind of conference with more frequency due to the importance and interest of ITS in the short/medium term. An extended version of this report with all the information related to the presentations done during the workshops and the outcomes of the open discussions is available in the *D6.2 – 1st Workshop of G-local Communities of Interest to Market*.

In addition to the organization of these workshops, INTELSPACE, SERNAUTO and TTI have participated in other related events to promote the ITS network and invite interested entities to join it:

Event	Place & date	Objective	Organizers	Number of attendees	Priority areas for T-TRANS project
Clean Drive in the Baltics. International Conference in Frame of Clean Drive project http://www.tsi.lv/?id=7132&lang=en	Riga, 15/Feb/2013	To present CLEAN DRIVE project (Intelligent Energy Europe programme) and EU initiative on the increase of car sales with low CO2 emission. To discuss an influence of various factors – economic, ecological, psychological, administrative – on the development of “green” transport. To consider different options for compromising between various interests of “green” transport market stakeholders. To increase customers’ awareness of actual and prospective advantages of “green” car use including modern traditional technologies as well as electrical, hybrid, alternative fuel transport. To promote involvement of different groups of population in CLEAN DRIVE movement. To stimulate central and municipal bodies take an active part in the improvement of “green” cars sales and purchases. To promote including of “green” transport topic in the National Development Plan of Latvia.	Clean Drive project, IEE, Eco Partner, TTI	More than 100	CS1
Workshop of INTERREG SEE project “SME Pipeline”	Thessaloniki, 20-21/Feb/2013	Two-Day Workshop Information Business to “PROMOTE INNOVATION IN BUSINESS TOOL ICT” It is part of the transnational project SMEPipeline which belong to the	SEPVE Association of ICT companies in Northern Greece	20	Upbringing innovative products to market

Rits-Net Workshop: ITS for traffic management and mobility Workshop of COMPASS4D project Roundtable in Logistics, Transportation and Telecommunication between representatives of industry	Valmiera, 27-28/Feb/2013	European Territorial Cooperation Programme Greece-Bulgaria 2007-2013. To increase knowledge and awareness of ITS instruments and to support regional transport policy.	Rits-Net project, Vidzeme Planning region	More than 60	Vehicles and cities
	Thessaloniki, 4/March/2013	First open workshop for cooperative mobility systems in Thessaloniki.	Hellenic institute of Transport	20	Vehicles and cities
	Riga, 13/Mar/2013	To bring together a cross-section of transportation and logistics experts in areas of production, consumption, supply and demand issues; policy; modal developments for road, rail, intermodal, dry bulk and container ocean movements; and infrastructural issues. Roundtable meeting covers a well-planned agenda of presentations, reviews, discussions of a current topic critical to the transportation and logistics national environment, and operational tours, personal access to policy makers, industry leaders, network with leaders in every segment of the transportation and logistics sectors, strategic advice for planning and risk management.	TTI, Latvian Transport Development and Education Association, Latvian Transport Union	More than 50	CS3, CS2
Workshop in frame of project "Policy Learning in Information Technologies for Public Transport Enhancement (POLITE)" 16 th International Conference	London, 14-16/May/2013	It was a milestone in the project as the partners performed a good practice analysis in order to identify those good practices which best meet their policy requirements.	Reading Borough Council (UK)	25	Public transport and cities
	Riga, 6-7/Jun/2013	It is an annual conference with a wide range of speakers from government	Riga Managers School, Riga,	120	CS3, CS2

<p>“TransBaltica 2013” http://www.rmsforum.lv/public/29685.html</p>	<p>structures from Latvia, Russia, etc, business and scientific establishment. The conference contributes to the problems and development of transport and logistics spheres in Latvia in Baltic Sea Region. The key speakers of this year Conference were Anrijs Matiss – Minister of Transport of the Republic of Latvia with presentation “Latvian transport sector development”, Eriks Smuksts - Vice President of Latvian Railway (Latvia), Olga Fialkina– Director General of the Company "Sea News" (Russia), Igor Kabashkin – Member of the European Commission on Co-operation in the Field of Scientific and Technical Research, Technical Committee on Transport, President and Professor of Transport and Telecommunication Institute (Latvia).</p>	<p>Latvia</p>
<p>ITS Spanish Congress / http://www.itsspain.com/itsspain/index.php/evento/92</p>	<p>San Sebastian, 18-20/Jun/2013</p> <p>National meeting point for the ITS community to network and share experiences and knowledge to progress and improve ITS application throughout Spain.</p>	<p>ITS Spain, Government of the Basque Country, Tecnalia, Ceit, MLC ITS Euskadi</p> <p>More than 350 participants among companies, technological centers and universities, public bodies,...</p> <p>Vehicles and cities, rail, logistic</p>

2.2 Second Workshops of G-local CIMs

The main scope of the 2nd G-local CIM workshops was to discuss the possible ways the proposed T-TRANS e-innovation network can up bring ITS products and services to the market. These 2nd workshops were more focused on the already structured network, while the task of involving new members is still alive.

Invitations were sent to participants of the 1st workshops and new stakeholders, especially to those which are registered as T-TRANS network members, resulting in a quite good amount of attendees from different entities.

The celebration of these workshops had the following objectives:

1. Provide general information about T-TRANS project progress, promoting the results of two key deliverables: D4.5 and D5.2
2. Present the T-TRANS network concept proposal: the current situation of the network (how it began and its members) and the outcomes of the benchmarking exercise of open innovation platforms developed to parameterize the T-TRANS network
3. Keep an open discussion about what the attendees think about the proposal and which are their expectations

2nd G-Local CIM Workshop in Riga, June 4th

Organized in the frame of the event titled “Transport Week”

24 participants representing 19 entities (Companies, public bodies, academia and research institutes):

- EcoTelematics Ltd.
- Imink Ltd.
- Kemek Engineering Ltd.
- Gefko Baltic Ltd.
- Logotek Ltd.
- SWD Factory Ltd.
- X Info Tech Ltd.
- Complete Payment System Ltd.
- Atlant – TEC Ltd.
- KOMIN Ltd.
- Latvian Transport Development and Education Association
- Green-tech Cluster (Society KBI)
- Latvian Transport Union
- Latvian Supply Chain Cluster
- Transport and Telecommunication Institute
- Riga Technical University
- LDZ JSC
- Autoosta JSC
- Rigas Karte Ltd.
- Vidzeme Planning Region

T-TRANS partners participation: Mihails Savrasovs – TTI presented the T-TRANS project, Igor Kabashkin – TTI presented the key deliverables in this stage, Irina Yatskiv – TTI presented the T-TRANS Network and acted as moderator of the round table and Daniil Opolchenov - TTI informed about the benchmarking exercise.

2nd G-Local CIM Workshop in Vigo, June 23rd

Co-organized with ITS Spain/ITS Galicia and CTAG

13 participants representing 9 entities (companies, public bodies, technological centers and associations):

- Regional Government of Vigo
- FAIMEVI
- WELGOOD SOLUTIONS
- MARSAN
- LITTLE CARS
- CABLERÍAS AUTO
- ATOS
- CTAG
- SERNAUTO

T-TRANS partners participation: Cecilia Medina - SERNAUTO presented the T-TRANS project, the benchmarking exercise, the T-TRANS network proposal and acted as moderator of the open discussion. Jorge López – ATOS presented the results of D4.5 and 5.2, focused on CS3.

Other speakers: CTAG introduced HeERO2 project, a pilot test of eCall in Galicia, as an example of the difficulty of bringing to market a technology in which different actors are involved

2nd G-Local CIM Workshop in Thessaloniki, June 25th

16 participants representing 10 entities (SMEs, intermediaries and public bodies):

- Organization of Urban Transportation of Thessaloniki (OASTH)
- Association of ICT Enterprises of Northern Greece (SEPVE)
- Municipality of Thessaloniki
- URENIO Research
- INTELSPACE SA
- Aristotle Univ. of Thessaloniki (AUniv)
- SEAWAY Logistics SA
- EMPHASIS SA
- South East Europe Research Center (SEERC)
- Society of Logistics Engineers Greece Charter (SOLE)

T-TRANS partners participation: Maria Schoina – INTELSPACE presented the T-TRANS project and the T-TRANS network, Isidoros Passas – INTELSPACE informed about the benchmarking exercise and the proposed network charter and Nikos Kominos presented the Communities of interest and commercialization of technology and acted as moderator of the open discussion together with Isidoros Passas

The conclusions of these workshops were very useful. The participants were very active in the discussions, especially in the debate which set the main characteristics for the success of the European T-TRANS network. Knowing the interests and expectations of the (possible) network members in the three selected regions was a big help to develop the T-TRANS network charter as guide to structure the network at an European level. An extended version of this report with all the information related to the presentations done during the workshops and the outcomes of the open discussions is available in the *D6.1 – 2nd Workshop of G-Local Communities of Interest to Market*.

In addition to the organization of these workshops, INTELSPACE, SERNAUTO and TTI have participated in other related events to promote the ITS network and invite interested entities to join it:

Event	Place & date	Objective	Organizers	Number of attendees	Priority areas for T-TRANS project
Conference “Business and research: Together towards innovations with ICT new trends. Big data, cloud, mobility and social networks”	Riga, 11/Sept/2013	To establish collaboration between academia and business sector in the theme of innovative ICT with application to the different areas (transport, production etc)	TTI, RTU, Baltic HPC Association	>80	Innovative ICT s for the transport area
Workshop in frame of project “Policy Learning in Information Technologies for Public Transport Enhancement (POLITE)”: InfoMobility	Riga, 18/Oct/2013	Planned workshop meeting of the POLITE project targeted on presentation of the project and involving local and national authorities in order to discuss ICT technologies introducing for public transport	Latvian Transport Development and Education Association		Planned workshop meeting of the POLITE project targeted on presentation of the project and involving local and national authorities in order to discuss ICT technologies introducing for public transport
RELSTAT 2013. International Conference: Reliability and Statistics in Transportation and Communication	Riga, 16-19/Oct/2013	Annual conference, dedicated to the issues related to transportation, logistic, ITS, telecommunication. Conference aims to discuss scientific problems in mentions areas and to present practical solutions	TTI		Transportation, logistic, ITS, telecommunication
TRANSRUSSIA 2014: International freight transportation, transport and logistics conference	Moscow, 22-23/April/2014	Main subjects at the conference: <ul style="list-style-type: none"> • Modern tendencies and prospects for development in the world transport industry • International cooperation in the field of 	ITE Group Plc	>300	ICT technologies for transport

POLITE project meeting		transportation. The development of international transport corridors <ul style="list-style-type: none"> • Reform of railway transport in the Russian Federation: current status, issues and prospects • Interaction between freight transporters and freight owners • The development of the transport infrastructure as a basis for the functioning of the transport system • Multimodal container transportation • The transport and logistics sector of the Baltic 			
	Riga, 04/June/2014	Planned workshop meeting of the POLITE project targeted on presentation of Good Practices (GP) in infomobility and possibility of transfer it in Latvia market. The local and national authorities, stakeholders were involved in order to discuss the GPs transferability aspects	Latvian Transport Development and Education Association	>50	Planned workshop meeting of the POLITE project targeted on presentation of Good Practices (GP) in infomobility and possibility of transfer it in Latvia market. The local and national authorities, stakeholders were involved in order to discuss the GPs transferability aspects
Seminar "Information and safety – main aspects of services, affecting on public transport"	Riga, 04/June/2014	Within the framework of the Week of Transport 2014 was held the scientific practical seminar "Information and safety – main aspects of services, affecting on public transport attractiveness: theory and	TTI	>50	Collaboration with local and national authorities involved in ICT development, transport service

attractiveness: theory and practice”		practice”. TTI was the host and chief organizer. The event has acquired a status of international conference and has officially entered the programme of the Week of Transport 2014.			providers, SME
MIRRIS project workshop	Riga, 15/June/2014	1 st Policy Dialogue in Latvia under MIRRIS project (Mobilising Institutional reforms in Research and Innovation Systems) aims to discuss weak and strong point of the Latvian innovation system	META Group, Fotonikas Centrs of University of Latvia	20	Innovation system discussion in Latvia
Sustainable Mobility for Cities and Regions	Thessaloniki, 5-6/Jun/2014	A. Sustainable Urban Mobility Plans: From Inception to Implementation B. Theory and practice of using ICT to facilitate smart and green regional development: best practice, evaluation and future challenges for multi-level governance	Aristotle University of Thessaloniki in collaboration with the Regional Studies Association	50-60	Urban mobility, ICT for transport
ITS Action plan for the Region of Central Macedonia	Thessaloniki, 24/Jun/2014	It has been implemented during the project “RITS-Net – Regions for Intelligent Transport Solutions Network” a Regional Initiative funded under the Interreg IVC EU Programme. RITS-Net has been financed under the theme ‘Energy and sustainable transport’ and one of its goals is that partner regions exploit the full potential of ITS solutions in the process of planning and implementing their regional mobility strategies, dealing with technical and non-technical aspects, creating their own ITS plans adapted to their specific local contexts	ANATOLIKI SA (Development Agency of Eastern Thessaloniki’s Local Authorities)	20	ITS for regional/urban mobility

3. Other ITS initiatives at EU and worldwide level

3.1 ITS organizations in Europe

3.1.1 ERTICO (www.ertico.com)

ERTICO – ITS Europe is a multi-sector, public/private partnership pursuing the development and deployment of Intelligent Transport Systems and Services (ITS). It was founded at the initiative of leading members of the European Commission, Ministries of Transport and the European Industry and gathers public authorities, industry players, infrastructure operators, users, national ITS associations and other organisations together.

ERTICO has played a leading role in advancing TMC standards, an open framework for telematics services, next generations of preventive safety systems, next generation of digital maps & associated applications, the technical framework for interoperable tolling in Europe and a global implementation of ITS together with ITS America and ITS Japan

ERTICO - ITS Europe activities focus on developing enabling technology and a common technical and business approach to Intelligent Transport Systems and Services (ITS), seeking the deployment of ITS technologies Europe-wide and beyond in order to reach the full societal and commercial benefits.

The ERTICO work programme focuses on initiatives to improve road safety, security and network efficiency whilst taking into account measures to reduce environmental impact. Its vision is of a future transport system working towards zero accidents, zero delays and fully informed people, where services are affordable and seamless, the environment is protected, privacy is respected and security is provided. Main activities are:

Safe mobility:

- Integrated road safety: provide all road users with relevant safety support from vehicle & infrastructure.
- Safe urban mobility: improve safety in the design of urban mobility services.
- Road user behaviour: enable safety innovation through better understanding of road user behaviour.

Smart mobility:

- Vehicle-to-Vehicle, Vehicle-to-Infrastructure communication: connect vehicles with each other and link vehicles with nearby roadside equipment and transport infrastructure
- Cooperative monitoring: provide real-time vehicle-based data about road, traffic and environment status and incidents
- Cooperative safety applications: provide local hazard alerts, the safe intersection, wrong-way driver warning
- Cooperative traffic management: use vehicles as “virtual loop detectors”, provide vehicle-traffic control interaction for smooth driving
- Traffic and traveller information: Ensure evolution from real time traffic information to truly integrated multimodal transport planning & traveller information
- Geo-localisation: Provide ubiquitous localisation through GNSS / in-door geo-positioning and appropriate location referencing methods
- Freight and Logistics: Optimise overall supply chain by means of e-freight and intermodal interoperable logistics management
- Access and Demand management: Support interoperability of European electronic toll and road charging services

Ecomobility:

- Eco-smart driving: support drivers to adopt and then maintain a fuel-efficient driving behaviour
- Eco-freight and logistics: enable freight routing and logistic operations to optimise fuel consumption and green goods transport
- Eco-traffic management: implement traffic control and management systems improving global traffic network energy efficiency
- Eco-vehicles: integrate hybrid and electrical vehicles into the transport and energy network

Members:

Mobile Network Operators

Deutsche Telekom
Ericsson AB
Orange Business Services
Telecom Italia SpA

Public Authorities

Austria - Federal Ministry for Transport, Innovation & Technology
Belgium - Vlaamse Overheid – Department Mobility & Public Works
Czech Republic - Ministry of Industry and Trade/Ministry of Transport
Denmark - North Denmark Region
Finland - Finnish Transport Agency
France - Ministry of Ecology, Sustainable Development and Energy / Bordeaux, Aquitaine (represented by Topos)
Germany - Federal Ministry for Transport, Building & Urban Development / WDR – Westdeutscher Rundfunk
Hungary- Ministry of National Development
Ireland - Department of Transport, Tourism and Sport
Italy - Ministry of Transport
Luxembourg - Administration des Ponts et Chaussées
Norway - NPRA – Norwegian Public Roads Administration
Poland - Directorate for National Roads & Motorways
Portugal - IMTT – Institute for Mobility and Land Transport / EP - Portuguese National Road Authority
Saudi Arabia - Ministry of Transport
Slovak Republic - Ministry of Transport, Construction and Regional Development of the Slovak Republic
Slovenia - Ministry of Infrastructure and Spatial Planning
Spain - Basque Government – Department of Housing, Public Works & Transport / Dirección General de Tráfico / Ministry of Development – Directorate General of Land Transportation
Sweden - Swedish Transport Administration
Switzerland - Directorate General of Swiss Customs / FEDRO – Swiss Federal Roads Office
The Netherlands - Ministry of Infrastructure and the Environment
Turkey - Ministry of Transport, Maritime Affairs and Communications
United Kingdom - DfT – Department for Transport

Research

CERTH – Centre for Research and Technology Hellas

CTAG – Automotive Technological Centre of Galicia (Spain)
DLR – German Aerospace Center
ICCS – Institute of Communication and Computer Systems
ICOOR – Interuniversity Consortium for Optimization and Operations Research
IFSTTAR - French Institute of Science and Technology, Development and Networks
Institute for Transport Studies, University of Leeds
ISMB – Istituto Superiore Mario Boella
Newcastle University - Transport Operations Group
OKAN ÜNİVERSİTESİ – Transport Technologies and Intelligent Automotive Systems
Application and Research Centre
SINTEF
Tecnalia
TNO Mobility
VTT – Technical Research Centre of Finland

Service Providers

Allianz AG
Applus IDIADA Group
CGI
Dekra e.V. – Deutscher Kraftfahrzeug Ueberwachungsverein
IBM
MetaSystem SpA
Nokia
PluService srl
PTV Planung Transport und Verkehr AG
TeamNet
Technolution BV
TomTom
Ygomi Deutschland GmbH

Suppliers

AVL List
Cobra Automotive Technologies SpA
Continental Automotive GmbH
Denso Europe BV
FICOSA International SA
Fujitsu Ten (Europe) GmbH
Gemalto
Mitsubishi Electric Automotive Europe
NEC Europe Ltd
NXP Semiconductors
Panasonic Automotive Systems Europe GmbH
Robert Bosch GmbH

Traffic and Transport Industry

ASFA
ASFiNAG
Cubic Transportation Systems
Imtech Traffic & Infra
Kapsch TrafficCom AG
Michelin

Q-Free ASA
 Qualcomm Incorporated
 Siemens AG
 SWARCO Mizar S.p.A.
 Thetis SpA
 TRAINOSE S.A.
 Vialis
 Xerox

Users

ADAC e.V. – Allgemeiner Deutscher Automobil-Club
 FIA – Fédération Internationale de l'Automobile
 IRU – International Road Transport Union
 RACC – Reial Automòbil Club de Catalunya

Vehicle Manufacturers

ACEA – Association des Constructeurs Européens d'Automobiles
 BMW Group
 Fiat S.p.A.
 Ford Werke GmbH
 Honda Motor Europe
 Renault
 Toyota Motor Europe
 VDA – German Association of the Automobile Industry
 Volvo Car Corporation
 Volvo Technology Corporation (representing Volvo Group)

3.1.2 National ITS Associations

ERTICO – ITS Europe also hosts since 2004 a Network of National ITS Associations (<http://www.itsnetwork.org>) that is a grouping of national ITS interests formed in order to ensure that ITS knowledge and information is transmitted to all actors at the local and national level - such as small and medium sized companies - and support ITS promotion from the ground up. The objectives of the Network are to:

- Share information about national ITS activities and strategies and agree on the appropriate content of future regional, national and EU programmes
- Support co-operation and projects across EU Member States and exploit synergies in current regional, national and EU projects
- Act as a channel for local SME participation in EU programmes
- Cooperate to establish an appropriate European ITS Policy framework
- Collaborate on ITS training

The Network currently consists of 27 member organizations:

Czech & Slovak ITS&S	www.sdt.cz
ITS Austria	www.its-austria.info
ITS Belgium	www.its.be
ITS Bulgaria	www.its-bulgaria.bg
ITS Croatia	www.its-croatia.hr
ITS Czech Republic	www.its-cz.cz/
ITS Denmark	www.itsdanmark.dk

ITS Finland	www.its-finland.fi
ITS France	www.atec-itsfrance.net
ITS Hellas	http://www.its-hellas.gr/
ITS Hungary	www.its-hungary.hu
ITS Ireland	www.itsireland.ie
ITS Lithuania	www.its-asociacija.lt
ITS Network Germany	www.its-network-germany.de
ITS Norway	www.its-norway.no
ITS Polska	www.itspolska.pl
ITS Portugal	www.its-portugal.eu
ITS Romania	www.its-romania.ro
ITS Russia	www.its-russia.ru
S-ITS, Slovenian ITS Association	www.sits.si
ITS Spain	www.itsspain.com
ITS Sweden	www.its-sweden.se
ITS Switzerland	www.its-ch.ch
ITS United Kingdom	www.its-uk.org.uk
MLC-ITS Euskadi	http://www.mlcluster.com/
Polish Association of Transport Telematics	www.pstt.eu
TTS Italia	www.ttsitalia.it

Example of national association: ITS Spain

The Forum for New Technologies in Transport ITS Spain (www.itsspain.com) is a non-profit association created in 2002 with the objecting of gathering the public, private and academic sectors relate to the intelligent transport systems, for a safer, sustainable and efficient mobility of passengers and freight through the different transport modes. It is the meeting point of all ITS stakeholders for the information and experience exchange and to promote and disseminate the new technologies in transport in Spain.

Among other networking activities, they organize workshops and events on specific subjects, such as ITS for toll highways, urban traffic management, public transport planners, ITS in freight transport, as well as regional events (Catalonia, Valencia, Galicia, ...), supported the presentation of the White Paper about the NFC application in public transport and organized a course about the implementation of UNE-ISO standard in the traffic sector.

ITS Spain also organizes annually the Spanish Congress on Intelligent Transport Systems, which gathers the main ITS actors in Spain: researchers, industry, private and public transport operators and public authorities. T-TRANS project participated in the XIII Spanish Congress on Intelligent Transport Systems celebrated in San Sebastian the 18-20th of June of 2013 (*see point 2 of this document*).

3.1.3 eSafety Forum – iMobility Forum

The *eSafety Initiative* was launched by the European Commission in 2002 as a tool to act upon the white paper 'European transport policy for 2010: time to decide' published in 2001. Its starting point was the idea that modern information and communication technologies (ICT) could make an important and novel contribution to road traffic safety and to the reduction in road fatalities. The eSafety Forum gathered all relevant road safety stakeholders (road operators, the automotive industry, emergency services, telecom service providers) and its main aim was to contribute to the

European Commission's 2001 goal of halving the number of fatalities on Europe's roads by 2010, by accelerating the deployment of these safety systems, and getting support for further scientific research on them.

Later the eSafety initiative took into account traffic-related environmental issues such as fuel efficiency and reduction in pollutant exhausts to the same level of importance as traffic safety and became part of the Commission's new Intelligent Car Initiative and changed its name to the **iMobility Forum** to reflect its field of work and include ICT systems for resource-efficient and clean mobility in addition to ICT-based safety technologies.

The iMobility Forum has taken active role in implementing the actions in line with the EC initiatives Digital Agenda for Europe (DAE), the 2011 Transport White Paper and the ITS Directive (2011).

With a vision on a safe, smart and clean mobility with zero accidents, zero delays, no negative impact on the environment and connected and informed citizens, where products and services are affordable and seamless, privacy is respected and security is provided, the iMobility Forum estimates for ITS the following potential contributions for the time period 2011-2020:

- 30% reduction in the number of fatalities across Europe
- 30% reduction in the number of seriously injured persons across Europe
- 15% reduction of road traffic related congestion
- 20% improvements in energy-efficiency
- 50% increase in availability of real time traffic and travel information

The forum aims at contributing to define research and innovation priorities for the R&I Frameworks, and to establish effective development and deployment of ITS, supporting the transport and energy policy goals and contributing to European competitiveness, growth and jobs creation and covering the requirements for all stakeholders along the whole value chain.

Main issues for the forum are:

- The availability of accurate real-time road and traffic data
- The technical, financial, organisational and legal framework for cooperative systems deployment
- The technical, financial, organisational and legal framework for automated road transport systems
- ITS related personalised mobility services
- Other ITS tools and methods for safe smart and clean mobility (including eco driving, traffic management etc.)
- International cooperation related to research and innovation
- Integrating transport, energy and ICT (Smart Cities)
- The implementation of quality control systems to ensure that the output of Working Groups is of a high standard

Members of the iMobility Forum participate in different Working Groups focused on specific topics in the ITS field including research, innovation and deployment.

3.2 ITS Organization worldwide

3.2.1 ITS America

The Intelligent Transportation Society of America (ITS America, www.itsa.org) is the nation's largest organization dedicated to advancing the research, development and deployment of Intelligent Transportation Systems (ITS) to improve the nation's surface transportation system. Founded in 1991 as a Federal Advisory Committee to the United States Department of Transportation (U.S. DOT) and now operating as a 501(c)3 nonprofit association, ITS America's membership includes more than 450 organizations comprised of public agencies, private sector companies, and research institutions. ITS America's 27 State Chapter's represent more than 40 states and more than 1200 member organizations.

ITS America is the forum for discussion of public policy, regulations, standards and other matters relating to ITS at regional, national and international levels. The Society's communications program raises awareness among consumers, legislators, and media of the value of ITS and promotes expanded use of technology solutions where people and goods are transported. ITS America also provides a variety of services and programs to assist its members to achieve their ITS policy and business objectives.

3.2.2 ITS Japan

The Vehicle, Road and Traffic Intelligence Society (VERTIS) was launched in January 1994 with the full support of National Police Agency, Ministry of International Trade and Industry, Ministry of Transport, Ministry of Posts & Telecommunications, and Ministry of Construction.

The main objectives of VERTIS are to further research and development in the broad range of ITS – related fields and the deployment of ITS, to exchange information with Europe and North America, to promote debate on ITS potential uses, and to organize the ITS World Congress. The final goal is to facilitate the creation of road transportation systems that are safe, comfortable, and kind to the environment, thereby providing a base for solid economic growth and contributing to a more affluent society.

3.3 ITS International events

3.3.1 World Congress on Intelligent Transport Systems (www.itsworldcongress.com)

The ITS World Congress and Exhibition are annually co-organised by ERTICO-ITS Europe, the Intelligent Transportation Society of America and ITS Japan. Each year the event takes place in a different region, in venues located Europe, Asia –Pacific and America, so that it is held in the same region every third year. Valuable support is also provided by the host region, including by the national ITS association of the country.

World ITS Congresses provide the opportunity for all players of the ITS world to come together, share knowledge and experience and make the necessary contacts to help move initiatives forward. Over the years, they have also received the highest support from government, industry and other organisations.

19th World Congress on Intelligent Transport Systems Vienna, 22-26 October 2013

Under the theme "Smarter on the way", the congress gathered over 3000 delegates and 2500 visitors on the open day. It was structured in 200 sessions exploring all aspects of transport grouped under six broad topics, state-of-the-art demonstrations including e-Mobility, cooperative systems and public transport, and many ancillary events. Besides the

European Commission participation with a large exhibit, many speakers and its “Intelligent Transport Conference”, public support was 15 Ministers and 30 high level representatives from public authorities and global organisations for the ministerial round table. The exhibition area, with 304 companies from 33 countries was visited by more than 10000 participants from 91 countries, while there were 2480 participants on the 23 technical demonstrations.

The Congress report is available at:

http://files.2012.itsworldcongress.com.s3.amazonaws.com/pdf/Vienna_Report_final_low.pdf

20th World Congress on Intelligent Transport Systems Tokyo, 14-18 October 2013

The theme of this edition “Open ITS to the Next” referred to ITS expanding into the next stage of mobility and society. Starting with safety and traffic management as basic concerns, ITS is reaching out to three new domains: energy management, personalized mobility services navigated by big data, and resilient transport systems, whereas mobility in mega cities/regions is a major issue to be addressed in emerging economies. Open was adopted as the key word for expanding the potential of ITS: open platforms for basic concerns, and open connectivity, opportunities and collaboration for the three new domains.

Congress Topics included:

- Safety and traffic management
- Next generation mobility and sustainability
- Efficient transport systems in mega cities/regions
- Intermodal and multimodal systems for people and goods
- Personalized mobility services
- Resilient transport systems for emergency situations
- Institutional issues and international harmonization

The conference gathered 20,691 participants from 65 countries, inclusive 3,940 congress attendants, and 238 exhibitors (Domestic: 114 / Oversea: 124 (Asia-Pacific: 44, Europe: 59)).

21st World Congress on Intelligent Transport Systems, Detroit, Michigan, 7-11 September 2014

Under the theme “Reinventing Transportation in our Connected World” the congress will bring together more than 10,000 of the world’s leading transportation policymakers, researchers, high-tech innovators, and business professionals.

22nd World Congress on Intelligent Transport Systems, Bourdeaux (France), 2015

European ITS Congresses are organised by ERTICO – ITS Europe in years when there is not an ITS World Congress in Europe, that bring together over 1500 people. The 9th European ITS Congress was held on 4-7 June 2013 in Dublin (Ireland) and the 10th European ITS Congress will be organized in Helsinki (16-19 June 2014).

3.3.2 International IEEE Conference on Intelligent Transportation Systems (ITSC)

ITSC is organised by the IEEE Intelligent Transportation Systems Society. Annually it gathers around 350 attendants. It has been held up to date in September-October every year in different locations in Europe and America. In 2014 it will be held in China.

The conference brings together researchers, engineers, practitioners, managers, and policy makers from academia, industry, and government to share and discuss the latest in ITS research and development (R&D) results and implementation strategies.

IEEE (Institute of Electrical and Electronics Engineers) is the world's largest professional association dedicated to advancing technological innovation and excellence for the benefit of humanity. IEEE and its members inspire a global community through IEEE's highly cited publications, conferences, technology standards, and professional and educational activities.

Since the project start, two editions have been held:

- **15th International IEEE Conference on Intelligent Transportation Systems (ITSC 2012)** in Anchorage (Alaska) (16-19 September 2012) - www.itsc2012.org

Under the theme “The Wild Frontier in Intelligent Transportation”, it covered the following topics: research and application in communications, computer, control and electronics technologies related to Intelligent Transportation Systems. It included dedicated sessions, workshops, and forums at which researchers, practitioners, government experts, and decision makers will share the latest research, success stories, and implementation needs of ITS.

- **16th International IEEE Conference on Intelligent Transportation Systems (ITSC 2013)** in The Hague, The Netherlands (6-9 October, 2013) - <http://iee-itc13.org>

Under the theme “Intelligent Transportation Systems for All Transport Modes” presentations focused on new developments in theory, analytical and numerical simulation and modeling, experimentation, advanced deployment and case studies, results of laboratory or field operational tests in the field of Intelligent Transportation Systems. Major advances in information and communication technology are enabling a vast array of new possibilities in transport and ITS are emerging worldwide to make transport more efficient, reliable, cleaner and safer. ITS are used in road, water, rail and air transport to collect information about transport flows from a multitude of sources and manage them effectively, shifting collective traffic and transport management paradigms towards end user orientation.

- **The 17th International IEEE Conference on Intelligent Transportation Systems (ITSC 14)** will be held in the Qingdao, Shangdong, China, October 8-11, 2014

3.3.3 International conference on telecommunications for intelligent transport systems (ITST)

ITST was first founded by the National Institute of Information and Communication Technology (NICT, Japan) in 2000 and was one of the first forums dedicated to intelligent transport systems. In the past decade, ITST became the trademark of newest ideas and latest research results from the leading industrial entities and scientific institutions in the area of transport communications. Up to date the conference has been held in Japan (2000, 2001 and 2010), in Korea (2002), in Singapore (2003 and 2004), in France (2005, 2007 and 2009), in China (2006), in Thailand (2008), and in Russia (2011).

This conference aims to accelerate research progress by serving as a forum in which both academia and industry can share experiences and report original works regarding all aspects of vehicular communication, e.g., Vehicular Ad hoc Networks (VANETs), information dissemination, road safety,

ITS and emergency services. Its primary goal is to promote meaningful research in the cross-layer design of architectures, algorithms and applications for inter-vehicular communication environments. This conference also addresses numerous significant standardization efforts (IEEE 802.11p, p1609, TIA TR48, etc.) and some alternatives or improved systems.

Currently, the research on ITS is not only fundamental in theory but also applied in practice. Although many brand new concepts, approaches, techniques and protocols have not been well developed yet, a substantial number of testbeds and trials are ongoing. This attracts a lot of efforts to establish comprehensive research frameworks - supported by national and international funding bodies - as well as an appreciable deal of so-called curiosity-driven research.

Since the project start, two editions have been held:

- **12th International conference on telecommunications for intelligent transport systems - ITST 2012**, Taipei, Taiwan, 5-8 November 2012 - www.itst2012.org

Under the theme “Smart vehicle intelligent transportation, green city”, it brought together researchers, developers, practitioners, and business executives from all over the world. The conference program featured technical sessions for the dissemination of the latest research results in smart vehicle, ITS, Telecommunications and Green technologies, workshops and exhibitions, keynote presentations from executives from industry giving their vision on the future trends in this fast-growing field, and tutorials by world-class experts.

- **13th International conference on telecommunications for intelligent transport systems - ITST 2013**, Tampere (Finland), 5-7 November 2013 – www.itst2013.org

In this conference edition a special session on Vehicle Connectivity Technology & Services has been organized. Vehicle connectivity is a rapidly growing area of technology and market development and more and more consumers expect connectivity as a standard feature in their vehicles. As many countries have begun to mandate car connectivity requirements to increase transportation safety, connected car market has clearly a tremendous opportunity, but it also faces a number of technical, economical and regulatory challenges. The goal of the special session was to bring together representatives from academia and industry to exchange ideas on state of the art and future trends of vehicle connectivity technologies and services, covering the following topics of interest:

- Vehicle Phone Integration; Embedded connectivity; DSRC
- eCall/ERA-GLONASS
- Safety, Smart Insurance, Infotainment
- Fleet Telematics services
- V2V & V2X
- Open Source Vehicle Connectivity Software
- Vehicle Connectivity Applications

3.4 ITS standardization activities

The **European Telecommunications Standards Institute (ETSI)** is Europe's leading organization for the development of world class ICT standards. It produces globally-applicable standards for Information and Communications Technologies (ICT), including fixed, mobile, radio, converged, broadcast and internet technologies. ETSI is officially recognized by the European Union as a

European Standards Organization. It is a not-for-profit organization with more than 700 ETSI member organizations drawn from 62 countries across 5 continents world-wide.

ETSI is involved in the elaboration of a set of standards to respond to the interoperability requested by the European Commission in its Standardization Mandate M/453. The continued ITS standardization effort is also supported by the European Commission Rolling Plan for ICT Standardization which emphasizes that it is necessary to ensure interoperability and continuity of the services among the different systems throughout Europe to take full advantage of the benefits resulting from Cooperative ITS. The existence of common European standards and technical specifications is paramount to ensure the interoperability of ITS services and applications as well as to accelerate their introduction and impact.

The ITS release oriented process is an organised process for standardization of Cooperative ITS. It enables development of standards based on agreed functionalities to be deployed by the stakeholders and covers the functionalities and technologies (i.e. the features) subject to a consultation process with stakeholders deploying Cooperative ITS.

ETSI organizes annual workshops on ITS:

The **5th ETSI Workshop on Intelligent Transport Systems (ITS)** was held on 5-6 February 2013, in Vienna, Austria and was jointly hosted by AustriaTech, ASFINAG and Kapsch TrafficCom.

The workshop aim was to present the content of the Release 1 standardization package for Cooperative ITS. Release 1 basically is the "minimum set of standards" for interoperability provided in accordance with the European Commission Standardization Mandate M/453. These standards are intended for the initial deployment of Cooperative ITS and have been developed by CEN and ETSI.

The next phase of standardization for Cooperative ITS is Release 2, which should include the additional features needed to support the deployment of more complex use cases, enabling a large installed base of cooperative systems and supporting additional available networks as required by the various stakeholders. An extended range of applications needs to be provided in the standards for both V2V and V2I/I2V mobility services. These standards should focus on crash avoidance, intersection collision warning and a limiting amount of traffic management types of use-cases both V2V and V2I/I2V communications.

New applications especially designed for specific groups of ITS stations, like trucks or large vehicles, will require new message sets and a new way of thinking when exchanging information. If Release 1 focused on disseminating locally gathered information to the other participants, Release 2 will concentrate on enabling a real dialog to take place between participants. The information will not just be advertised, but be part of a two-way information-exchange process ultimately leading to an agreed decision where each ITS-station will know what the other participants are going to do and how. The real cooperative nature of ITS will be enabled, with all participants being able to share information and make their contribution to the decision making process.

The **6th ETSI Workshop on Intelligent Transport Systems (ITS)** is scheduled for 12-13 February 2014. The event, hosted by the Federal Ministry of Economics and Technology (DE) will take place in Berlin, Germany.

The completion of the Release 1 standardization package for Cooperative ITS and the completion of the associated European Commission Standardization Mandate M/453 will

facilitate implementation of Cooperative ITS. The next phase of standardization for Cooperative ITS, the Release 2 standardization package, aims at developing standards, based on functionalities which will be agreed and deployed by the stakeholders. It should include the additional features needed to support the deployment of more complex use cases, enable a large installed base of Cooperative ITS, and support additional available networks as required by the various stakeholders. It also includes the improvement of existing standards when new use cases and applications render this necessary.