



ITS for connected mobility

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- » EU Transport Policy & ITS Directive
- » ITS for Connected Mobility
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EU Transport Policy



EU Transport Policy Context

- » **Europe 2020 Strategy: 3 mutually reinforcing priorities:**
 - › **Smart growth**, developing an economy based on knowledge, innovation, education and digital society;
 - › **Sustainable growth**, promoting a low-carbon, resource-efficient and competitive economy; and
 - › **Inclusive growth**, fostering a high employment economy delivering social and territorial cohesion.



EU Transport Policy Context (2)

- » **EU Transport White Paper: long-term vision (2050)** for the future of European transport and mobility, and definition of strategies for the next ten years.
=> Part of the **Europe 2020 agenda**
“Resource efficient Europe”, “Innovation Europe” and “Digital Agenda for Europe” (three of the seven flagship initiatives).



ITS Directive and ITS Action Plan



New EU Policies on ITS

Action Plan for the Deployment of ITS in Europe (December 2008)

Directive 2010/40/EU: Framework for the Coordinated and Effective Deployment and Use of ITS (26 Aug. 2010)

Road transport and interfaces with other modes

- › Coordinate and accelerate deployment of ITS
- › Make road transport more sustainable

Directive 2010/40/EU: Framework for the Deployment of Intelligent Transport Systems

4 Priority Areas

Optimal Use of Road,
Traffic and Travel Data

Continuity of
Traffic and
Freight Management

Road Safety
and Security

Linking Vehicle and
Transport Infrastructure

Directive 2010/40/EU: Framework for the Deployment of Intelligent Transport Systems

6 Priority Actions



EU-wide Multi-Modal
Travel Information



EU-wide Real-Time
Traffic Information



Free Safety-Related
Minimum Traffic Information



Interoperable
EU-wide eCall



Information Services
for Truck Parking



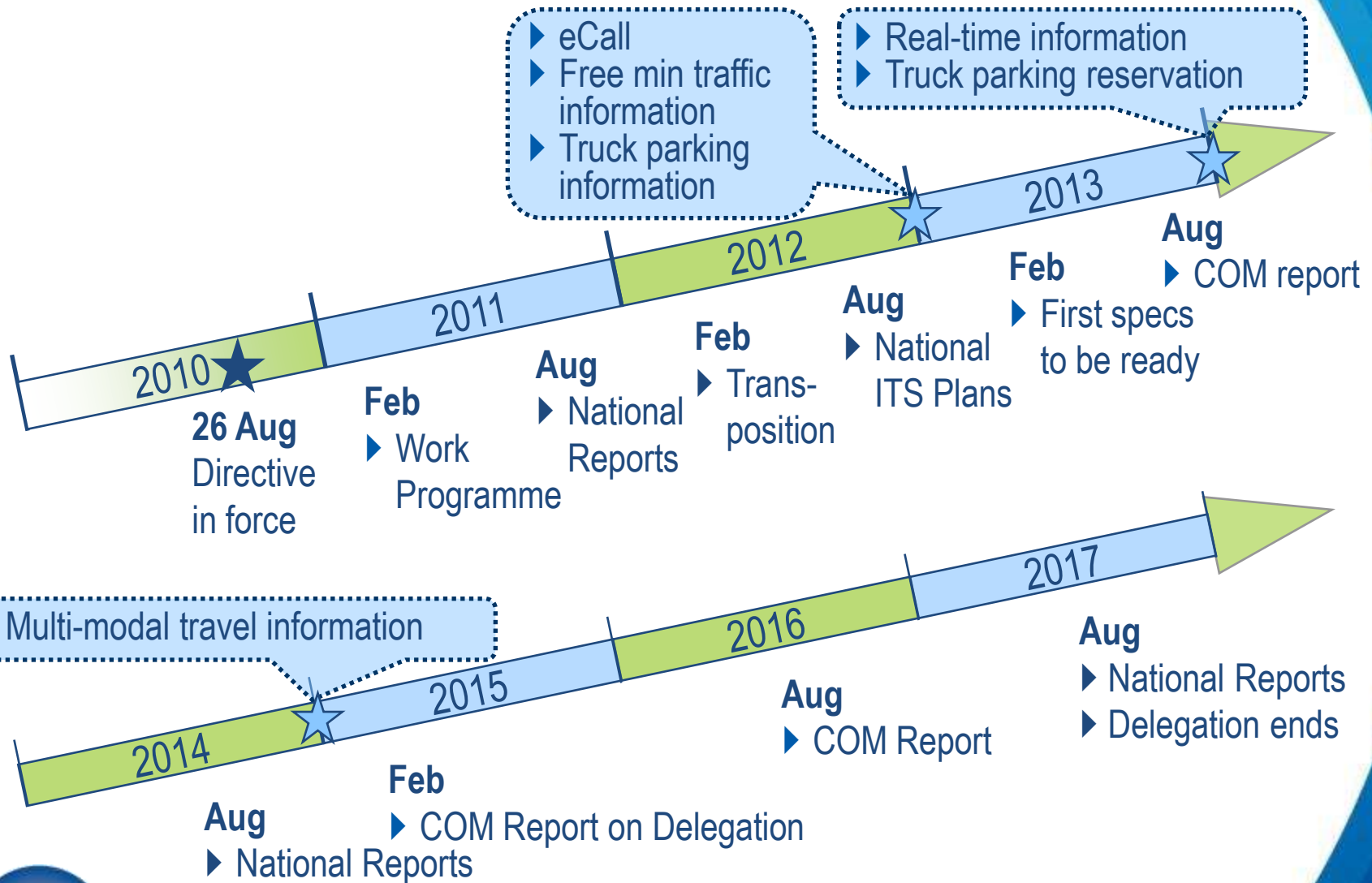
Reservation Services
for Truck Parking

Source: European Commission



ERTICO - ITS Europe

Timeline



ERTICO - ITS Europe

Source: European Commission

ITS for connected Mobility

Future mobility scenarios and technology options for road transport

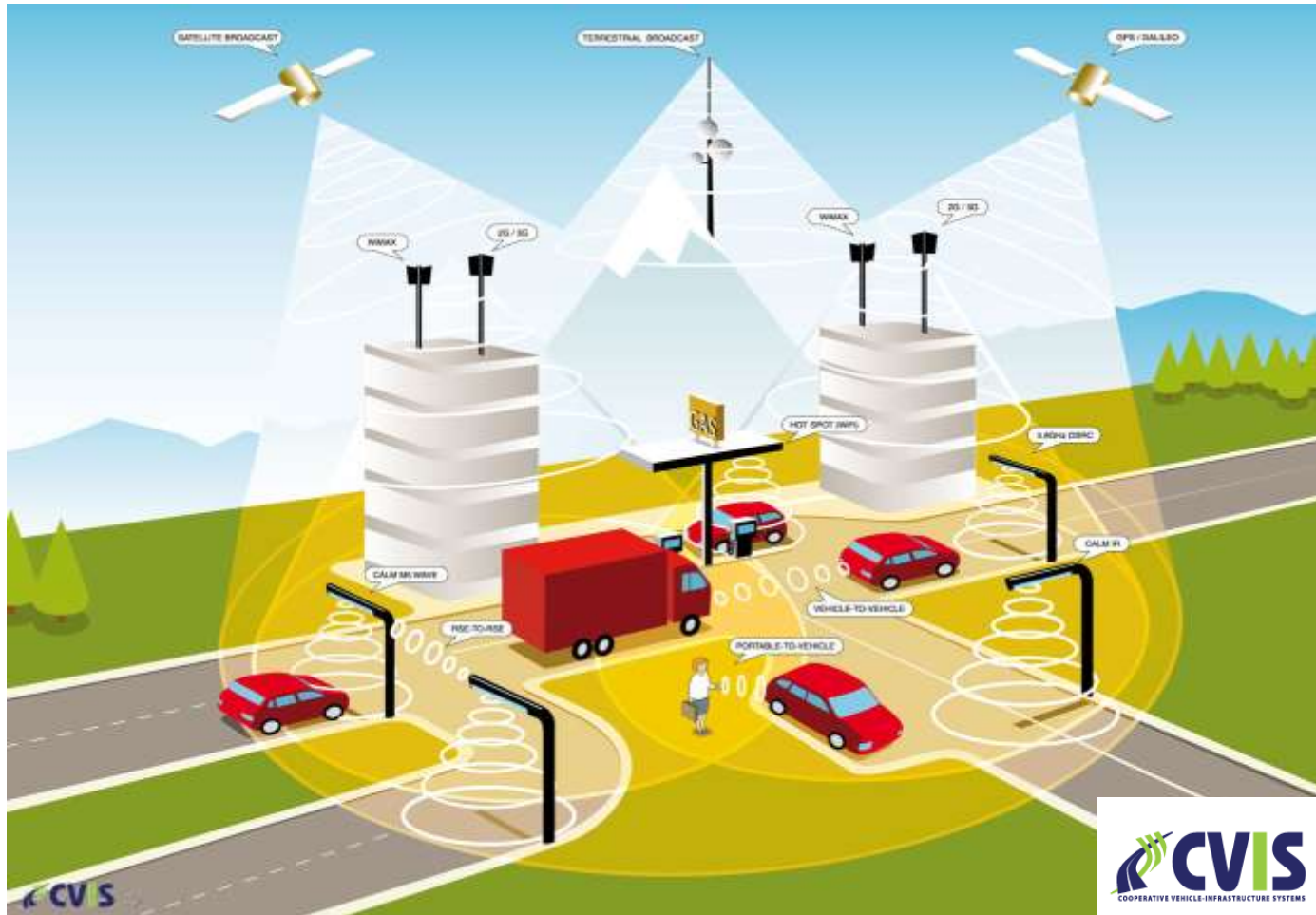


Connected Mobility

- » Seamless connectivity between users (drivers, travellers, fleet owners & operators), transport infrastructure and vehicles (multimodal)
- » Multi-actor ecosystem from public and private sectors
- » Data sharing and exchange of high quality, real-time and reliable information from multiple sources
- » Communities of users and providers
- » Prediction from users' point of view, traffic managers, operators and service providers



Connected Mobility Communication Infrastructure



Future Internet for connected mobility



Instant Mobility brings the world of ITS together with the innovative potential of future Internet features and technologies - to create Mobility 3.0 for people & goods



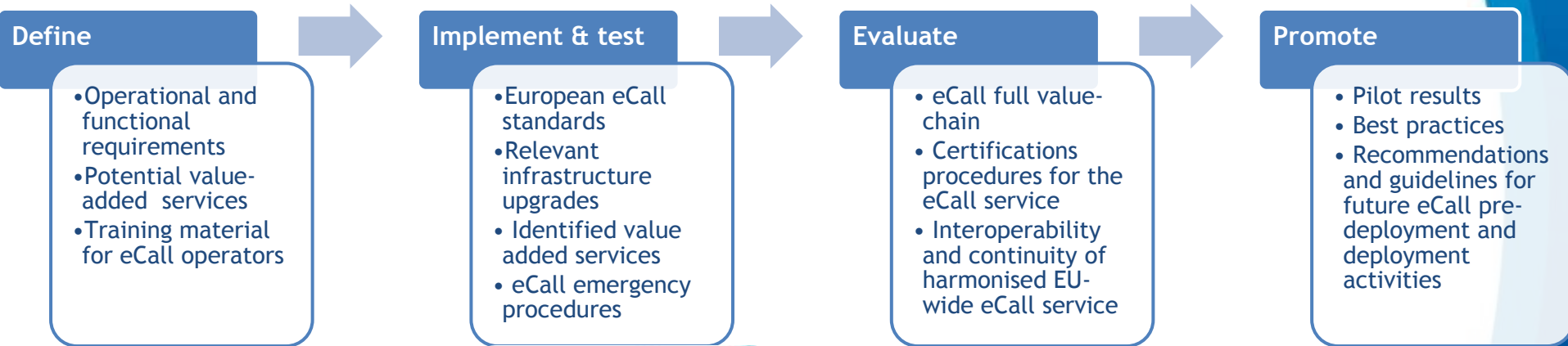
- explore novel mobility & transport scenarios highlighting use of future Internet, e.g. for travellers, drivers, goods transport, collective transport & traffic management
- Examples of scenarios for innovative mobility services enabled by Future Internet:
 - Provision of complete multi-modal travel information
 - Automated sharing of cars space (car pooling/sharing on the fly)
 - Real-time localization, destination and capabilities of public and private transport information
 - Smarter city logistics operations
 - Online traffic & infrastructure management



Harmonised European eCall - HeERO Pilot



HeERO pilot prepares for the deployment of the necessary infrastructure in Europe for making the interoperable Pan-European in-vehicle emergency call service eCall a reality for all European citizens.



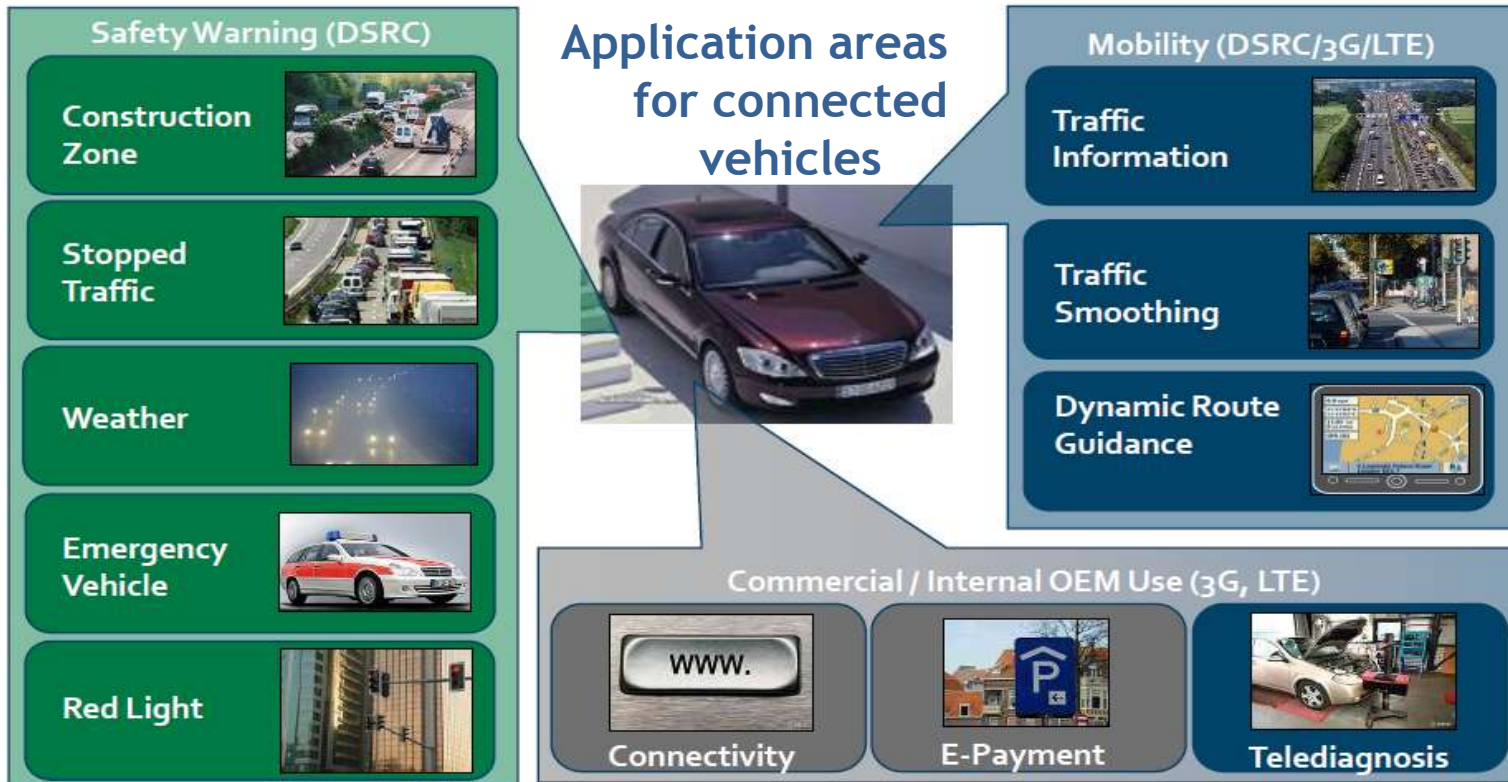
» ERTICO - ITS Europe / ITS Russia cooperation: eCall ERA GLONASS Working Group in collaboration with NIS



Accelerate deployment of cooperative mobility



DRIVE C2X contributes to the creation of a harmonized Europe-wide testing environment for C2X technologies



Cooperative Mobility Systems and Services for Energy Efficiency



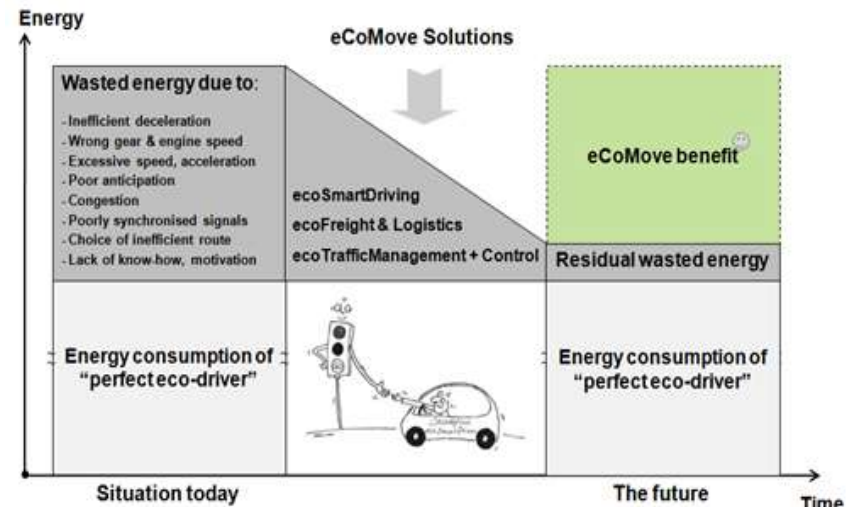
eCoMove aims to reduce as much as possible wasted energy in road transport.

The eCoMove Concept is that of the “perfect eco-driver” travelling through the perfectly “eco-managed” road network

» Main Objective

To develop a combination of cooperative systems and tools using V2V and V2I communication to help:

- drivers sustainably eliminate unnecessary fuel consumption,
- fleet managers to provide incentives to drivers to save fuel, and most economical vehicle management
- road operators manage traffic in the most energy efficient way



Target is to reduce by 20% fuel consumption & therefore CO₂ emission

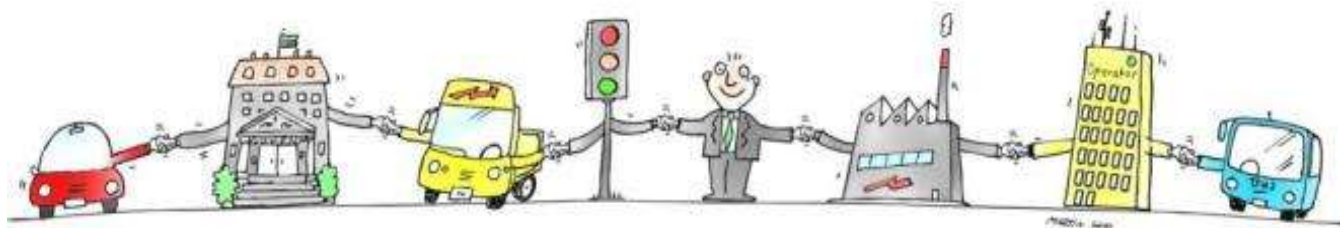


Conclusions

Connected Mobility is part of the solution to achieve smart, safe and efficient transport of people and goods by

- » **Saving lives** (safety & security)
- » **Saving time** (traffic efficiency, multimodality & optimal use of all modes of transport)
- » **Saving money** (better use of existing infrastructure + reduced congestion)
- » **Saving energy** (fuel efficiency, low carbon transport, electromobility)
- » **Reducing stress** (driver comfort, users' satisfaction)

ITS is the way forward through international multi-sector cooperation to make connected mobility a reality.





19th ITS World Congress
Vienna, Austria
22 to 26 October 2012

Congress

Exhibition

Demonstrations



www.itsworldcongress.com

- **22 - 26 October 2012**
- Reed Messe Wien GmbH
- Vienna, Austria



ITS Vienna 2012

Organised by



ERTICO - ITS Europe

Hosted by



Objective of 19th ITC WC Vienna

» Slogan: **smarter on the way**

- **Seamlessly connected** => Demonstrate technologies and ICT prototypes in an **integrated way** in the transport environment of the city of Vienna (for PT, highway and urban roads)
- **Serving the customer** => **user orientation and involvement** is key in technology demonstrations
- **Caring for sustainability** => innovate and integrate solutions at transport infrastructure and network level

Congress General Topics and Sub-Topics

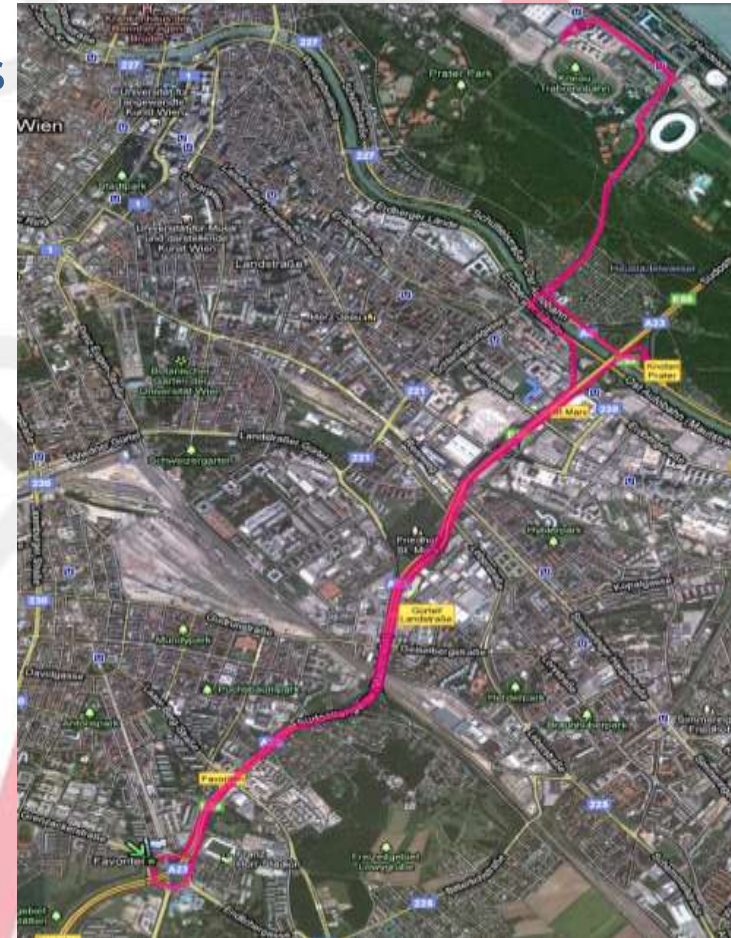
1. Optimising provision and use of Infrastructure, Traffic and Travel Data and Information
 2. Intelligent infrastructure
 3. Continuity and Interoperability of Seamless Multimodal Services for Mobility
 4. Integrated Safety and Security for all Users
 5. Connected Vehicles, Infrastructure and Users for Cooperative Mobility Services
 6. Sustainable, Clean and Energy Efficient Mobility
- A. *Policy and Strategy*
 - B. *Innovation, Technologies and Standardisation*
 - C. *Services and Functions*
 - D. *Business model and Financing*
 - E. *Impact assessment and Benefits*
 - F. *Governance, Cooperation and Organisation*
 - G. *Education, Training and Awareness*
 - H. *Users*

Call for Papers

- Open since 17 October 2011
- Submission deadline 13 January 2012
- **Scientif/Technical Papers:**
 - Paper Status notified to authors by end of April 2012
 - Final paper online submission by 9 September 2012 (Speakers have to be registered for the Congress before)
- **Special Interest Sessions**
 - Selection by mid-March 2012

Demonstrations and Cooperative Mobility Showcase

- Cutting-edge demo programme according to Congress Theme and Topics
- Open to all Regions
- Two options for participation to live demonstrations
 - Option 1 - Public Road
 - Option 2 - Closed area
- Possibilities for static demonstrations
- Submission deadline 15 November 2011 for Option 2
- Contact: Alexander Frötscher, AustriaTech, its21012@austriatech.org





Thank you for your attention and
see you in Vienna in October 2012!



19th **ITS World Congress**
Vienna, Austria
22 to 26 October **2012**

