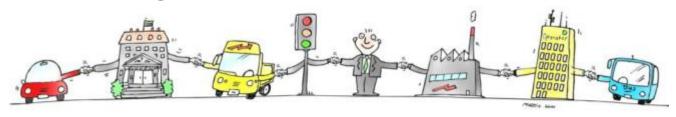


ITS for safer roads and vehicles

UNECE Conference Road Safety, 27-29 April 2011, Belgrade



Vincent Blervaque, ERTICO - ITS Europe



INTRODUCTION TO ERTICO - ITS EUROPE

Facts & figures

- ✓ Founded in 1991
- ✓ Around 100 Partners
- ✓ Around 400 i-Mobility Network members
- √ 30 projects across 4 continents
- ✓ Hosting/managing deployment platforms TISA, ADASIS and Cooperative Mobility Alliance
- ✓ Hosting Network of 25 National ITS associations
- ✓ Organising the ITS World and European Congresses
- ✓ Team of 35 professionals in Brussels



Partners - 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 & Danish Road Directorate
- » Finland: Finnish Transport Agency
- » France: Ministry of Ecology, Sustainable Development and Spatial Planning, French Institute of Science and Technology, Development and Networks
- » Germany: Federal Ministry for Transport, Building & Urban Development, German Aerospace Center, Westdeutscher Rundfunk
- » Hungary: Ministry of Transport, Telecommunication and Energy
- » Ireland: Department of Transport
- » Italy: Ministry of Transport

Luxembourg : Administration des Ponts et Chaussées

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- » 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
- » Slovenia: Ministry of Transport
- Spain: Basque Government Department of Transport and Public Works & Dirección General de Tráfico & Directorate - General of Road Transport, Ministry of Internal Development
- » Sweden: Swedish Transport Administration
- Switzerland: Directorate General of Swiss Customs, Swiss Federal Roads Office
- The Netherlands: Ministry of Transport Public Works & Water Management
- » United Kingdom: DfT Department for Transport

Partners

Industry

- Allianz AG
- AVL List
- BMW Group
- Cobra Automotive Technologies Sp A
- Cinterion Wireless Modules Gmb H
- Continental Automotive GmbH
- Denso Europe BV
- Efkon AG
- Ericsson AB
- Fiat Group
- Honda Motor Europe
- IBM
- Kap sch TrafficCom AG
- Logica
- MetaSystemSpA
- Mitsub ishi Electric Automotive Europe
- Mizar Automazione Swarco Group
- Navted
- NEC Europe Ltd
- Nissan Motor Manufacturing (UK) Ltd Belgian Branch
- NXP Semiconductors
- Panasonic Automotive Systems Europe GmbH
- Peek Traffic BV
- PluService srl
- · PTV Planung Transport und Verkehr AG
- PTV Planung Tr
 Q-Free ASA
- Renault
- Robert Bosch GmbH
- Satellic Traffic Management (member of T-Systems)
- Siemens AG
- TeamNet
- Technolution BV
- TomTom
- ThetisSpA
- Toyota Motor Europe
- Vialis
- Volvo Car Corporation
- Volvo Technology Corp. (representing Volvo Group)
- WirelessCar (representing Volvo Info. Technology)
- Ygomi Europe Kft

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Infrastructure Operators

- ASFA Association Professionelle Autoroutes et ouvrages routiers
- · Egis
- Orange
- · Telecom Italia SpA
- Vodafone

Users

- · ADAC e.V. Allgemeiner Deutscher Automobil-Club
- . ANWB Royal Dutch Touring Club
- · RACC Reial Automobil Club de Catalunya

Other

- ACEA Association des Constructeurs Européens d'Automobiles
- · CERTH Centre for Research and Technology Hellas
- CTAG Automotive Technological Centre of Galicia (Spain)
- Dekra e.V. Deutscher Kraftfahrzeug Ueberwachungsverein
- · FIA Fédération Internationale de l'Automobile
- ICCS Institute of Communication and Computer Systems
- ICOOR Interuniversity Consortium for Optimization and Operation research
- innovITS
- · Institute for Transport Studies, University of Leeds
- IRU International Road Transport Union
- ISMB Istituto Superiore Mario Boella
- Sintef
- Tecnalia
- TNO Mobility
- VDA German Association of the Automobile Industry
- · VTT Technical Research Centre of Finland

Our vision

"Intelligent Mobility"



- Towards zero accidents,
- Towards zero delays,
- With reduced impact on the environment,
- Towards fully informed people,
 - where services are affordable and seamless,
 - privacy is respected and
 - > security is provided.



Our mission

The ERTICO Partnership will bring *Intelligence into Mobility* for all travellers and businesses by:

- » Promoting and deploying ITS
- » Enabling interoperable and seamless ITS services across Europe
- » Being the reference for ITS
- » Cooperating with all stakeholders
- » Promoting all modes of transport



Our goals

EcoMobility

towards reduced impact on the environment

InfoMobility

towards zero delays and fully informed people



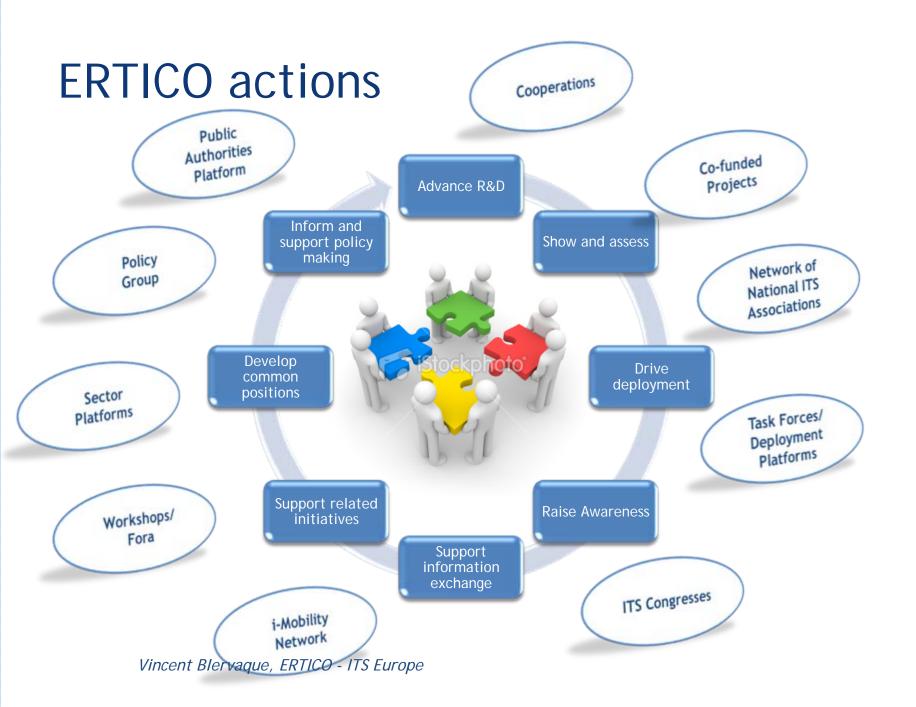
SafeMobility

towards zero accidents



towards fully connected vehicles and infrastructure

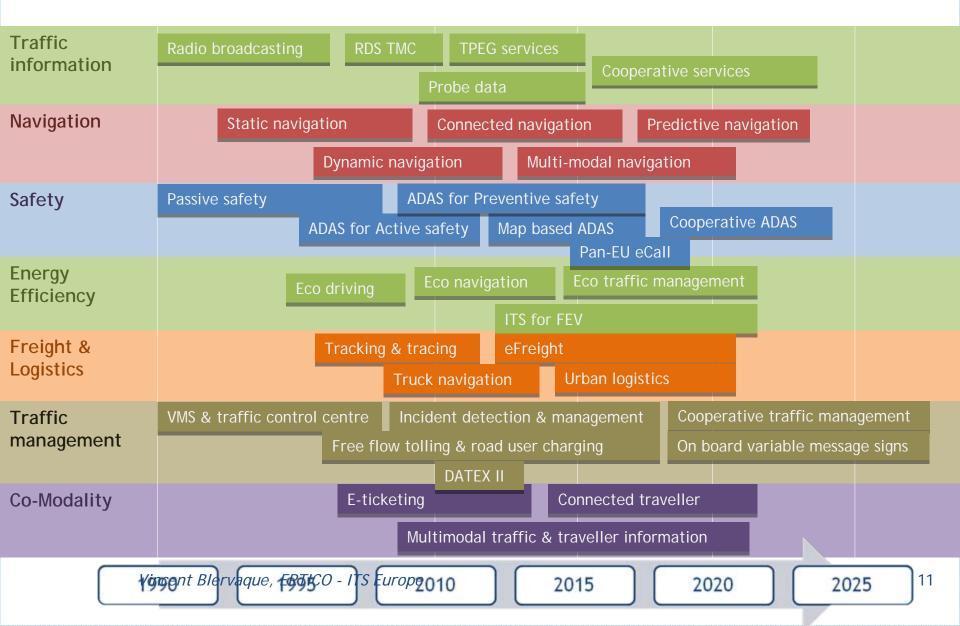






ITS FOR SAFER ROADS AND VEHICLES

ITS Applications Roadmap



SafeMobility...

...towards zero accidents



Integrated road safety

provide all road users with relevant safety support from vehicle & infrastructure



Safe urban mobility

improve safety into the design of urban mobility services



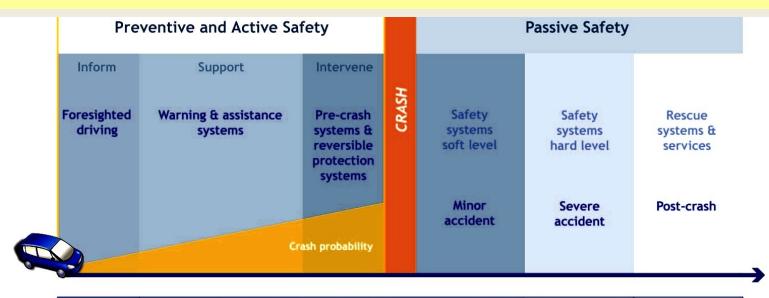
Road user behaviour

enable safety innovation through better understanding of road user behaviour



Time To Collision Concept

Harmonised progression of interventions and integration of preventive, active and passive safety



Accident prevention and collision mitigation eCall **Occupant Protection** Digital Haptic and acoustic Brake Assistant Emergency braking Improved response Airbags map-based & interaction support for Collision avoidance Active vehicle Vehicle crashworthiness services & cooperative Lane warning, controls Reversible restraints Materials (energy absorption) Emergency vehicle Distance & Speed Warning systems Intelligent restraint system clearing

Measures to avoid accidents

Measures to mitigate consequences

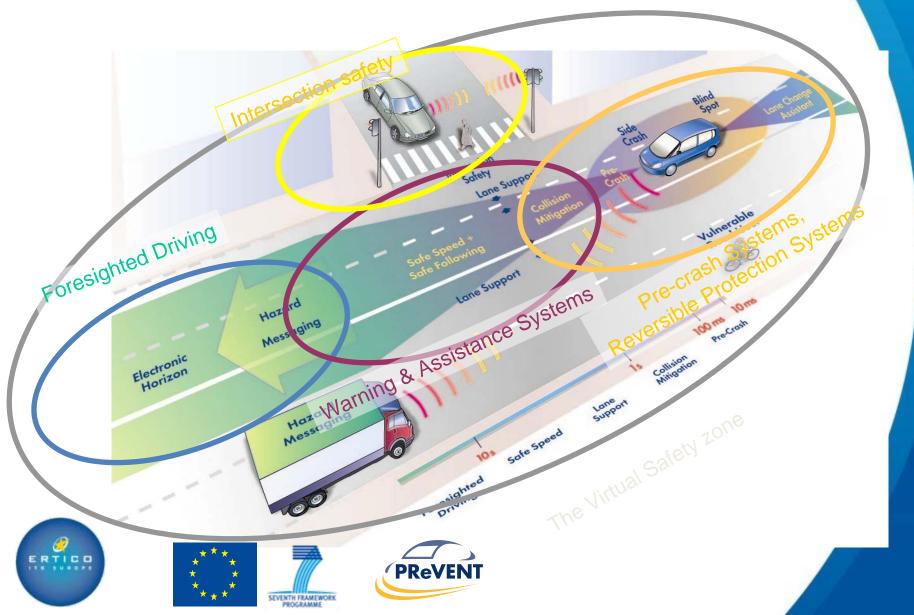








The "virtual safety belt" concept



Co-operative Systems The Potential





- » The potential benefits include:
 - increased road network capacity
 - reduced congestion and pollution
 - shorter and more predictable journey times
 - improved traffic safety for all road users
 - > lower vehicle operating costs
 - more efficient logistics
 - improved management and control of the road network (both urban and inter-urban)
 - increased efficiency of the public transport systems
 - > better and more efficient response to hazards, incidents and





Vehicle-to-Infrastructure Communication (V2I)

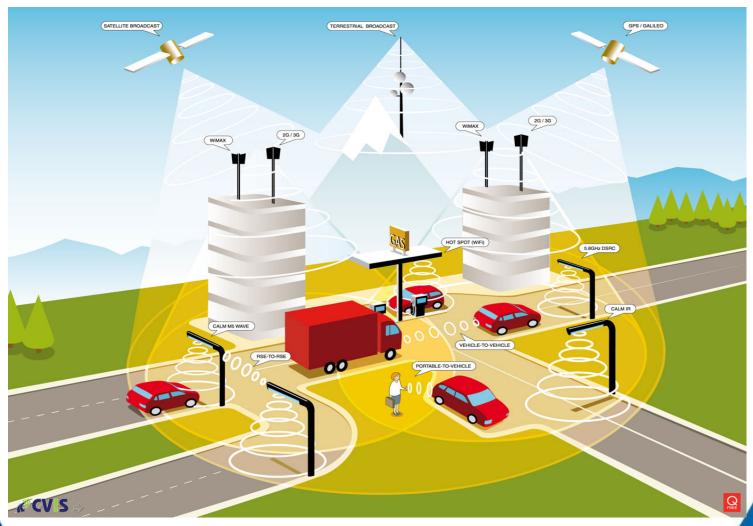
Vehicle-to-Vehicle Communication (V2V)



Cooperative Systems Communication Infrastructure









Cooperative Systems Safety Applications





Vehicle based

Lateral Collision Prevention

Longitudinal Collision Prevention

Road Departure Prevention

Vulnerable Users Protection



Infrastructure based

Speed Alert

Road Departure Prevention

Safety Margin for Assistance and Emergency Vehicles

Co-operative Intersection Collision Prevention System

Hazard and Incident Warning





Summary

- 1. ITS has been contributing for many years to reduce number and severity of road accidents by offering mature solutions to make road infrastructure and vehicles safer
- 2. ITS is the main enabler to achieve integrated road safety by better linking road infrastructure, vehicles and users
- 3. Next generation of ITS solutions based on vehicle-to-vehicle and vehicle-to-infrastructure communications has the potential to increase even more road safety by reducing risk of accidents
- 4. A majority of ITS solutions deliver combined benefits for road safety, traffic efficiency and reduced impact on environment
- 5. ITS success comes from multi-sectoral partnership from public an private sectors sharing same goals





ITS EUROPE CONGRESS

8th European Congress on ITS



ITS for sustainable transport of persons and goods in urban regions

Lyon, France, 6-9 June 2011

www.itsineurope.com



Partners







Themes & Topics



Co-modal urban transport management From cooperative systems to integrated mobility services

Electromobility

From smart concepts to successful implementation

transport of persons and goods in urban regions

Governance and business issues ITS for adaptive and resilient cities

Information and communication: providers and users



A unique opportunity



- » to exchange information and network with 1500 stakeholders, decision and policy makers
- » to share best practices and lessons learned
- » to monitor progress and measure results in terms of implementation and deployment
- » to exhibit state of the art technologies and innovative products and services
- » to open business and partnership opportunities
- » to showcase the latest ITS solutions







Be part of the ITS Community meeting in Lyon

More information



Registrations open 4th April 2011

Do not miss the ITS week of 2011!

www.itsineurope.com >>>







Let us cooperate to bring Intelligence into Mobility!

