



Directorate-General  
for Energy  
and Transport



EUROPEAN  
COMMISSION

## ● Deployment of Intelligent Transport Systems (ITS)

### ITS Action Plan and proposed Directive

Gzim Ocakoglu  
European Commission / DG TREN

“Public EESC Hearing on the Deployment of ITS”  
Ostrava, 26 March 2009

# ● Challenges in Road Transport

- **Road congestion** leads to economic losses of about 1 % of the GDP (~ 115 billion €).
- Each year still more than 40.000 citizens are **killed** on the road.
- Road transport accounts for 72% of transport-related **CO<sub>2</sub> emissions**.  
Transport is the only sector where CO<sub>2</sub> emissions still grow (2010-20: +15%)



# ● Intelligent Transport Systems (ITS)

Use of **information and communication technologies in transport**,  
e.g. phones, satellites, computer, sensors

## Examples in road transport

- » dynamic traffic management
- » real-time traffic information
- » satellite navigation, tracking & tracing
- » multi-modal journey planners
- » electronic toll collection
- » in-vehicle safety systems



# ● Potential of ITS for road transport

- reduction of **congestion** by 5-15%
  - » dynamic traffic & freight management, dynamic navigation, electronic toll collection
- 5-15% less **fatalities** and 5-10% less **injuries**
  - » electronic stability control (ESC), lane keeping support, speed alert, emergency call (eCall)
- possible savings of 10-20% **CO<sub>2</sub> emissions**
  - » road charging, access management, eco-driving support, multi-modality



# ● Current Status of ITS Deployment

- fast technical development > high number of mature applications
  - benefits and return on investments highly depending on the scale of deployment
  - slow and fragmented uptake across Europe
  - large differences between countries
  - low degree of intermodality
- >> patchwork of national, regional and local solutions

Consequently:

- ITS not effectively being used
- potential remains largely untapped



# ● ITS Action Plan COM(2008) 886

## 24 Actions in 6 Priority Areas

Optimal Use of Road,  
Traffic and Travel Data

Continuity of  
Traffic and  
Freight Management

Road Safety  
and Security

Integration of  
Vehicle and  
Transport Infrastructure

Data Protection  
and Liability

European  
ITS Coordination

## Area 1 Optimal Use of Road, Traffic and Travel Data

1. EU-wide real time travel information (public and private roles)
2. Collection and provision of road data
3. Accurate public data for digital maps
4. Free minimum information service
5. Promotion of multi-modal journey planners

## Area 2 Continuity of Traffic and Freight Management

1. Continuity of ITS services (corridors and urban/interurban)
2. Services for freight transport and logistics (eFreight)
3. European ITS framework architecture (especially urban)
4. Implementation of the interoperability of electronic toll systems



## Area 3 Road Safety and Security

1. Promotion of in-vehicle safety systems
2. Introduction of Europe-wide eCall
3. Regulatory framework on safe human-machine interfaces including nomadic devices
4. Best-practice guidelines:  
impact of ITS on vulnerable road users
5. Best-practice guidelines:  
secure parking places for trucks (ITS support)

## Area 4 Integration of Vehicle and Transport Infrastructure

1. Open in-vehicle platform architecture
2. Development and evaluation of cooperative systems
3. Specifications for communication:
  - » infrastructure-to-infrastructure
  - » vehicle-to-infrastructure
  - » vehicle-to-vehicle
4. Mandate for European standardisation

## Area 5 Data Protection and Liability

1. Assessment and measures on security and data protection
2. Addressing of liability issues, especially in-vehicle safety systems

## Area 6 European ITS Coordination

1. Legal framework for European ITS cooperation > *proposed Directive*
2. Decision support toolkit for ITS investments
3. Guidelines for public funding for ITS (EU and national)
4. Collaboration platform on urban ITS

# ● Proposal for a Directive: COM(2008) 887

- Framework for the implementation of the Action Plan
- Deployment: Obligations for Member States (Art.3)
  - » necessary measures for coordinated deployment and use of interoperable ITS services
  - » make reliable and updated road transport data available
  - » ensure data exchange between traffic centres (across borders)
  - » take measures to integrate different safety systems in the vehicle and develop safe human-machine interfaces
  - » take measures to integrate ITS applications on a single platform
  - » use satellite-based infrastructure (or equivalent technology)
- Specifications for the Deployment : (Art. 4 + Annex II)
- Reporting: (Art. 10)
  - » Activity report by Member States after 6 months
  - » National Action Plans (5-year) by Member States and annual progress reports
  - » European Commission reports every 2 years to European Parliament and Council



## European ITS Committee

Member States  
*Chair: EC*

- ▶ Member States
- ▶ European Commission

- ▶ establish specifications in priority areas
- ▶ information exchange

## European ITS Advisory Group

20 High Level Members  
*Chair: EC*

- ▶ Service providers
- ▶ User associations
- ▶ Transport operators
- ▶ Industry
- ▶ Social partners
- ▶ Professional organisations
- ▶ Local authorities
- ▶ European Commission

- ▶ advise on business and technical aspects
- ▶ formulate stakeholder interests

# ● Implementation of the Action Plan

- 2009-2014 (target date for each action)
- inter-service cooperation will continue
- progress report in 2012
- monitoring indicators have been identified



- discussions in European Parliament and Council started in January 2009 and are on-going
  - » EP TRAN Committee to vote on 31 March
  - » EP Plenary vote scheduled on 22 April
  - » Council Conclusions on ITS AP to be adopted on 30 March
- co-decision procedure for the Directive

# ● Conclusion

- Intelligent Transport Systems (ITS) have a good potential to make transport safer, more efficient and greener
  - » 5000 less fatalities on the road
  - » 10% less congestion (€ 10 billion in time savings)
  - » substantial reduction of CO<sub>2</sub>
- ... but deployment and use is slow and fragmented

▶▶ The **ITS Action Plan and Directive** aim to accelerate and coordinate ITS deployment on the roads including interfaces to other modes



# ● The EasyWay project

- Financially supported by the EC under the Multi Annual TEN-T Programme (2007-2013) : €300 Millions in three cycles on a total budget of €1.5 Billion
- EasyWay project focuses on a Europe-wide harmonized deployment of "Core ITS services" on the trans-European road network
- This deployment is in 3 thematic ITS domains, in addition to the ICT infrastructure:
  - » Traffic management
  - » Travel & traffic information services
  - » Freight & logistics services
- Importance of involvement of new MS: today 21 Member States (with 2 observers) are participating in EasyWay. (Countries currently not participating in EasyWay are: : Estonia, Latvia, Malta, Luxembourg, Poland, Bulgaria.)
- This is an opportunity to be involved in ITS deployment at European level.

- More information



ITS Action Plan and Directive

[http://ec.europa.eu/transport/its/road/action\\_plan\\_en.htm](http://ec.europa.eu/transport/its/road/action_plan_en.htm)

Thank you for your attention !