ITS and Policies
Overview

• Introduction to DG MOVE
• Challenges and promises
• Instruments for ITS Deployment
• ITS Action Plan and Directive
• Conclusions
DG MOVE : Directorate-General for Mobility and Transport

• Role: Developing transport policies for the European Union

• Objectives:
  – To ensure mobility in a single European transport area
  – Integrating citizens' needs
  – Environmental policy, and competitiveness.

• Actions:
  – Completing the European internal market
  – Developing an agenda for innovation
  – Building the EU's core trans-European infrastructure network
  – Projecting the EU's mobility and transport objectives

• DG MOVE : about 400 staff in Brussels with a yearly budget of about € 1,5 billion
Challenges in Road Transport

• **Road congestion** leads to economic losses of about 1 % of the GDP (~ 115 billion € in the EU).

• Road transport accounts for 72% of transport-related CO$_2$ emissions. Transport is the only sector where CO$_2$ emissions still grow (2010-20: +15%)

• Each year still almost 35.000 citizens are **killed** on the road.
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)

- savings of 10-20% **CO₂ emissions**
  - road charging, access management, eco-driving support, multi-modality
Instruments for Implementation

• R&D support
  – for nearly 20 years with considerable budget:
    e.g. from 2002 to 2009 (FP6 and FP7): > € 300 million

• Recommendations
  – for nearly 20 years with limited effects

• Co-funding of deployment

• Standardisation
  – existing norms for voluntary use,
    e.g. short range communication, RDS-TMC, Electronic Fee Collection
Status of Road ITS Deployment in Europe

• fast technical development
  – industry in the driving seat
  – high number of mature applications
  – business cases often difficult

• slow and fragmented uptake
  – large variation between countries
  – lacking system approach
  – patchwork of national, regional and local solutions; few EU-wide services

• low degree of intermodality
EU Policy Initiative on ITS


adopted by the Commission on 16/12/2008

Scope: Road transport and interfaces with other modes

- coordinate and accelerate deployment of ITS
- make road transport more sustainable
ITS Action Plan: Priority Areas

- Optimal Use of Road, Traffic and Travel Data
- Continuity of Traffic and Freight Management
- Road Safety and Security
- Integration of Vehicle into Transport Infrastructure
- Data Protection and Liability
- European ITS Coordination
ITS Action Plan: some of the on-going actions and related activities:

- procedures for EU-wide real-time traffic and travel information (incl. data access and exchange)
- truck parking: information and reservation systems
- open in-vehicle platform
- eFreight: projects EURIDICE, INTEGRITY, eFreight
- European Electronic Toll Service: Implementation of Commission Decision
- Toolkit for decision-makers: [www.2DECIDE.eu](http://www.2DECIDE.eu)
- ITS in Urban Areas: preparation of a European collaboration platform
ITS Directive Proposal: Scope

• Framework for coordinated and coherent ITS deployment and use
  – development of specifications and standards
  – for ITS in road transport and interfaces with other transport modes

• Priority areas
  1) optimal use of road, traffic and travel data
  2) continuity of traffic and freight management ITS services
  3) ITS road safety and security applications
  4) linking the vehicle with the transport infrastructure
ITS Directive Proposal: Priority Actions

1. EU-wide multimodal travel information services
2. EU-wide real-time traffic information services
3. Data and procedures for the provision, where possible, of road safety related minimum universal traffic information free of charge to users
4. Harmonised provision for an interoperable EU-wide eCall
5. Information services for safe and secure parking places for trucks
6. Reservation services for safe and secure parking places for trucks
ITS Directive Proposal: Specifications

• functional, technical, organisational, service provision specifications
• procedure
  – delegated acts (Art. 290 TFEU)
  – based on standards (where appropriate)
  – impact assessment prior to adoption
• obligations for Member States
  – ensure use of specifications when ITS is deployed
  – cooperate in respect to priority areas
  – deployment obligation only after adoption of co-decision proposal
Status of Directive Proposal

• EP adopted the Directive proposal with amendments in 1st reading on 23 April 2009
• Early 2\textsuperscript{nd} reading agreement has been reached between EP and Council end of 2009
• Adoption of Position by Council in 1st reading on 10 May 2010
• Next steps :
  – Formal adoption in 2\textsuperscript{nd} reading by EP plenary in July 2010
  – Entry into force of Directive after publication in the Official Journal
Conclusions

• ITS can support policy goals of safe, clean and efficient transport in a cost-effective way.

• ITS has proven its impact if deployed with regard to local needs and conditions.

• ITS deployment in Europe is still fragmented.

• The Commission has proposed new instruments to accelerate and harmonise ITS deployment, with concerted contributions from the stakeholders and a strong coordination with the Member States.
Activity

• Make groups and prepare an action plan about promoting ITS in Europe
• Choose one of the following areas and find out what are the key strategies adopted to develop:
  – Cooperative and connected vehicles
  – Road
  – Rail
  – Maritime and inland navigation
  – Multimodal journey planner
  – Air
  – Etc.
• Refer to the link: https://ec.europa.eu/transport/themes/its_en