

- Framework for the deployment of
ITS in Europe – State of Play

ITS Action Plan

Directive 2010/40/EU

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● Outline

- The European Transport policy
- ITS deployment - Situation today
- Policy framework for ITS deployment
 - » ITS Action Plan – ITS Directive

● EU 2020 Strategy

- Lead Europe out of the economic and financial crisis
- More jobs and higher quality of life in the long-term
- **3 mutually reinforcing priorities :**
 - » Smart growth: Knowledge and Innovation
 - » Sustainable growth: ecology and competitiveness
 - » Inclusive growth: employment and social / territorial cohesion



● EU 2020 – Flagship Initiatives

- Seven flagship initiatives:

- » **Innovation Union:** better conditions and funding for research and innovation
- » **Digital Agenda for Europe:** extension of fast Internet access and digital common market
- » **Resource-efficient Europe:** decoupling of growth and resource use, renewable energies and energy efficiency, modernisation of the transport sector
- » **An industrial policy for the globalisation era :** to improve the business environment and to support the development of a strong and sustainable industrial base
- » **Youth on the move**
- » **An agenda for new skills and jobs**
- » **European platform against poverty**

● White Paper 2011 on Transport: a roadmap to a Single European Transport System

...that is

- Sustainable
- Integrated (all modes)
- User-friendly
- Technology led (ITS)

and that enhances

- Economic progress
- Competitive growth (Single Market)
- Efficient use of Resources
- Use of cleaner fuels, reduction of oil dependency





White Paper 2011 on Transport (2) a vision for the transport system of 2050

Establishing

- A global level-playing field for long-distance travel and intercontinental freight
- An efficient core network for multimodal intercity travel and transport, well connected to local systems
- Clean urban transport and commuting

> Focus on a *single, integrated & intelligent infrastructure*

- 10 goals formulated related to:
 - » develop & deploy new & sustainable propulsion systems
 - » optimising performance of multimodal logistic chains
 - » increasing the efficiency of transport & infrastructure use
- 40 actions clustered around 4 “I” s:

● How to do it – The 4 “i”s and 40 actions

Internal market: Create a genuine Single European Transport Area by eliminating all residual barriers between modes and national systems.

Innovation: EU research needs to address the full cycle of research, innovation and deployment in an integrated way.

Infrastructure: EU transport infrastructure policy needs a common vision and sufficient resources. The costs of transport should be reflected in its price in an undistorted way.

International: Opening up third country markets in transport services, products and investments continues to have high priority.

Internal market

- **Single European Railway Area**
- Complete modernisation of Europe's air traffic control system by 2020 (**SESAR**)
- Ensure the full interoperability between ICT systems in the waterborne sectors, guarantee the monitoring of vessels and freight (**Blue Belt**)
- **e-Freight** initiative for paperless and intelligent logistics
- Towards a '**zero-vision**' on road safety
- Access to real time **travel and traffic information** to facilitate multi-modal travel planning and integrated ticketing
- Further consolidation of **passengers' rights** legislation



Innovation

- **Technology Roadmap** : in the areas of clean, safe and silent vehicles for all different modes of transport, integrated transport management and information systems, Intelligent infrastructure (both land and space-based)
- **An innovation and deployment strategy** : measures for the deployment of smart mobility systems, definition and deployment of an open standard electronic platform for vehicle on board units, European Integrated Multimodal Information and Management Plan
- **Regulatory framework for innovative transport** : Interface standards for infrastructure-to-infrastructure, vehicle-to-infrastructure, and vehicle-to-vehicle communications
- **Eco-driving and speed limits**



Infrastructure

- **Core infrastructure – a European Mobility Network** : Deploy large scale intelligent and interoperable technologies (SESAR, ERTMS, RIS, ITS, etc.) to optimise the capacity and the use of infrastructure
- Single framework for **coherent funding** : TEN-T, cohesion and structural funds, including the deployment of new technologies (ITS)
- Single management structures for **rail freight corridors**
- Guidelines for the **application of infrastructure costs to passenger cars** (2012). In a second stage, a framework for the internalisation of costs to all road vehicles



● 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% **CO₂ emissions**
 - » road charging, access management, eco-driving support, multi-modality

● Status of ITS Deployment

- Fast technical development > high number of mature applications
- But slow and fragmented uptake across Europe
- Large differences between countries
- Low degree of intermodality

➔ **Patchwork of national, regional and local solutions**

main problem drivers identified:

- » lack of interoperability
- » lack of effective cooperation
- » privacy and liability issues



● Policy framework for the deployment of ITS in Europe

Action Plan for the Deployment of Intelligent Transport Systems (ITS) in Europe (Dec 2008)

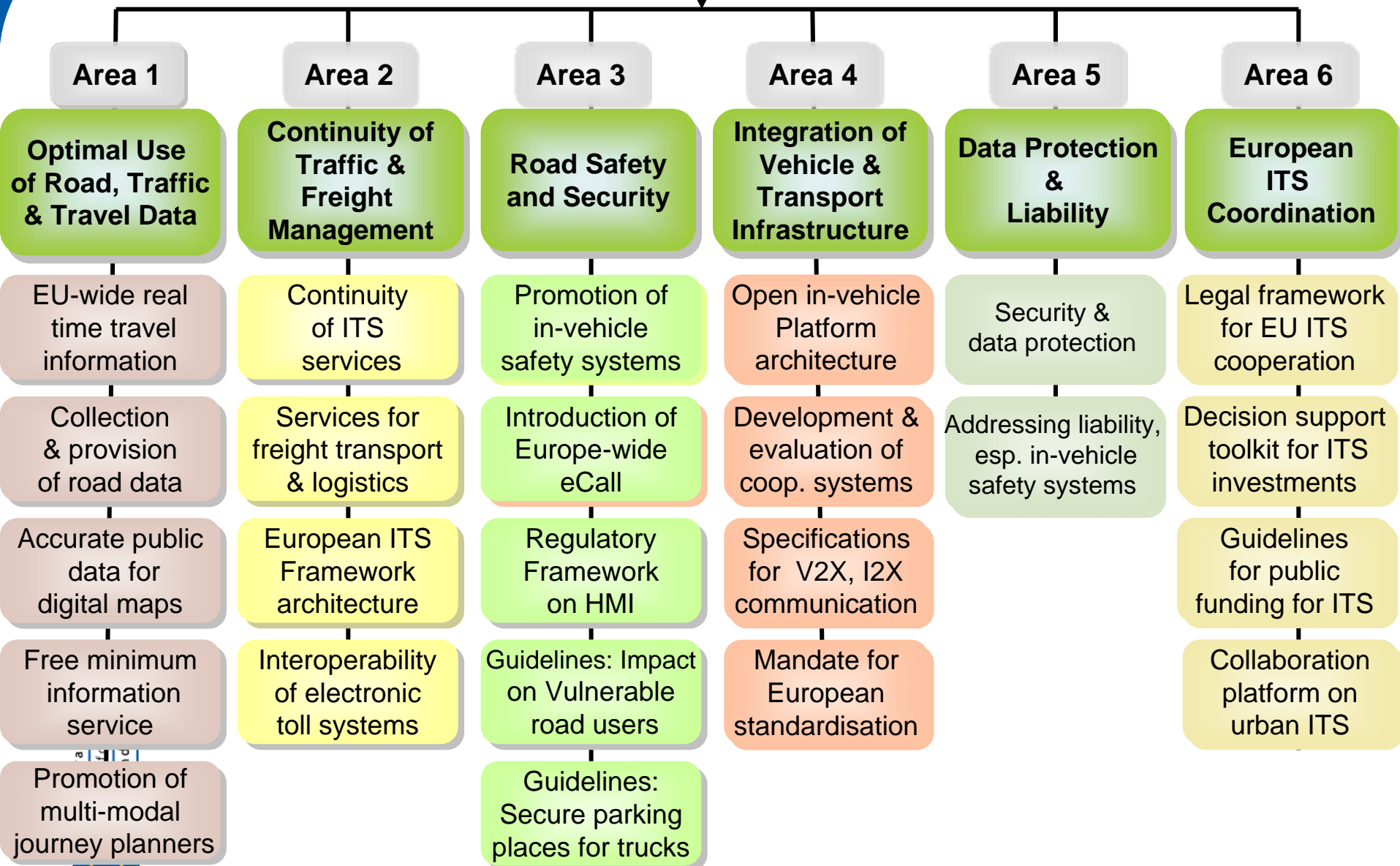


Directive 2010/40/EU: Framework for the Coordinated and Effective Deployment and Use of Intelligent Transport Systems

Road transport and interfaces with other modes

- » coordinate and accelerate deployment of ITS
- » make road transport more sustainable

ITS Action Plan



● Directive 2010/40/EU

in force since
26 Aug 2010

Framework for the Coordinated and Effective Deployment and Use of Intelligent Transport Systems

Objectives

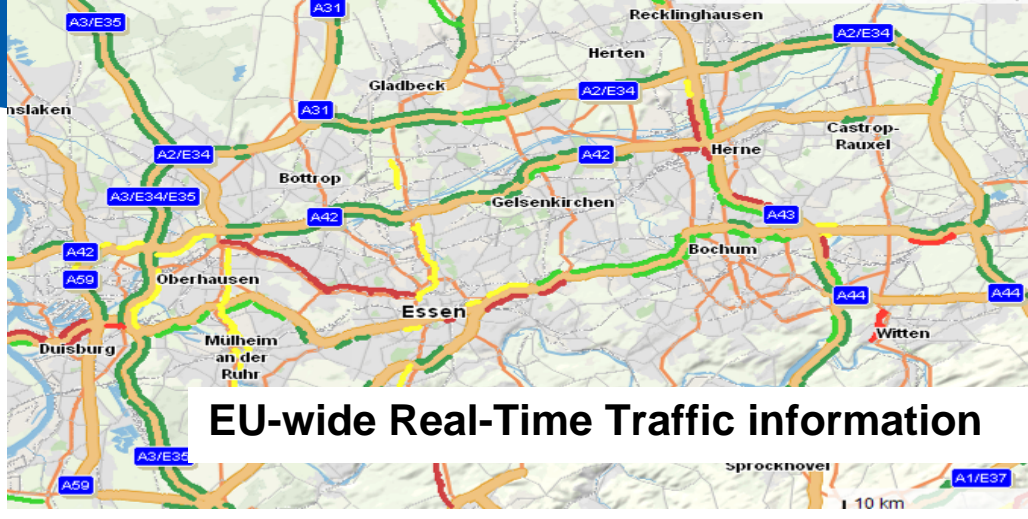
- Establishing a framework for coordinated and effective deployment and use of ITS
- Setting common priorities
- Development of specifications and standards focused on interoperability and continuity

● ITS Directive: Specifications

- Aims: compatibility, interoperability and continuity
- Binding Measures :
 - » Adopted as “delegated acts” (Art 290 TFEU)
 - » Functional, technical, organisational, service provisions
 - » 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



EU-wide Multi-Modal Travel Information



EU-wide Real-Time Traffic information



Free safety-related minimum Traffic Info



Interoperable EU-wide eCall



Information & Reservation systems for Truck Parking



SOURCE: European Commission

European ITS Committee

established in Dec 2010

Chair: Commission

▶ Member States

- ▶ adoption of work programme
- ▶ reporting guidelines
- ▶ standardisation mandates
- ▶ non-binding measures
- ▶ consultation for specifications
- ▶ information exchange

European ITS Advisory Group

Call for application closed

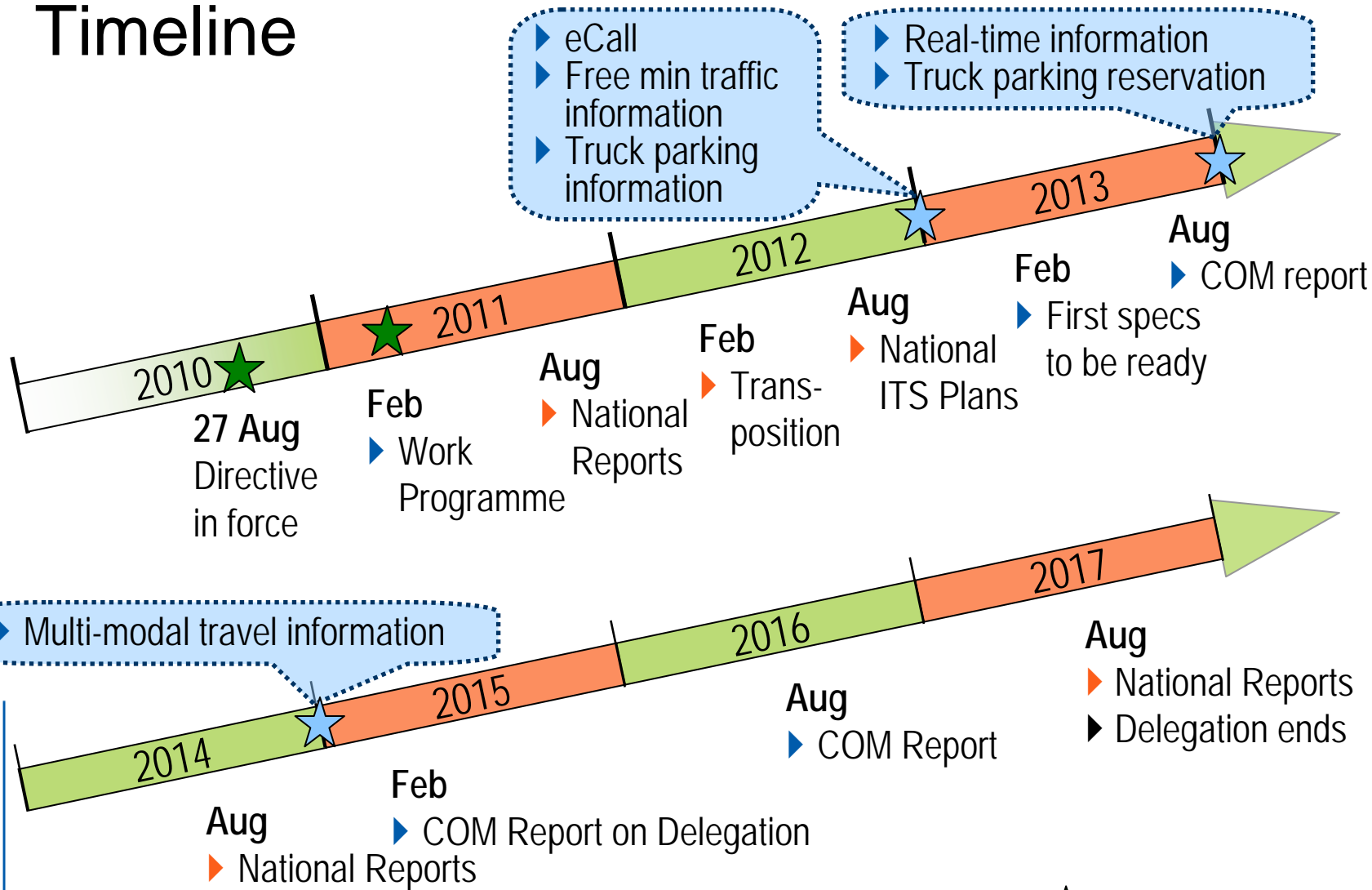
Chair: Commission

High Level Representatives

- ▶ Service providers
- ▶ User associations
- ▶ Transport operators
- ▶ Industry
- ▶ Social partners
- ▶ Profess. organisations
- ▶ Local authorities
- ▶ Other relevant forums

- ▶ advice on business and technical aspects
- ▶ stakeholder interests

Timeline



● More information



- Directorate-General for Mobility and Transport
http://ec.europa.eu/transport/index_en.htm
- ITS Action Plan and Directive
http://ec.europa.eu/transport/its/road/action_plan_en.htm
- White Paper 2011
http://ec.europa.eu/transport/strategies/2011_white_paper_en.htm

Thank you for your attention !