



- **Datex II**
in the context of harmonised ITS Deployment

Policy context – view of the EC

● Outline

- Policy context
 - » Transport White Paper: a vision for the transport system of 2050
 - » EU policy framework for the deployment of Intelligent Transport Systems
- The importance of DATEX II

● Goals of European transport policy

● Paramount goal:

A **transport system** that

- » underpins EU **economic progress**,
- » enhances **competitiveness** and
- » offers **high quality mobility** services while using resources more efficiently

● In practice, transport has to:

- use less energy
- use cleaner energy
- better exploit a modern network



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

...that *is*

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

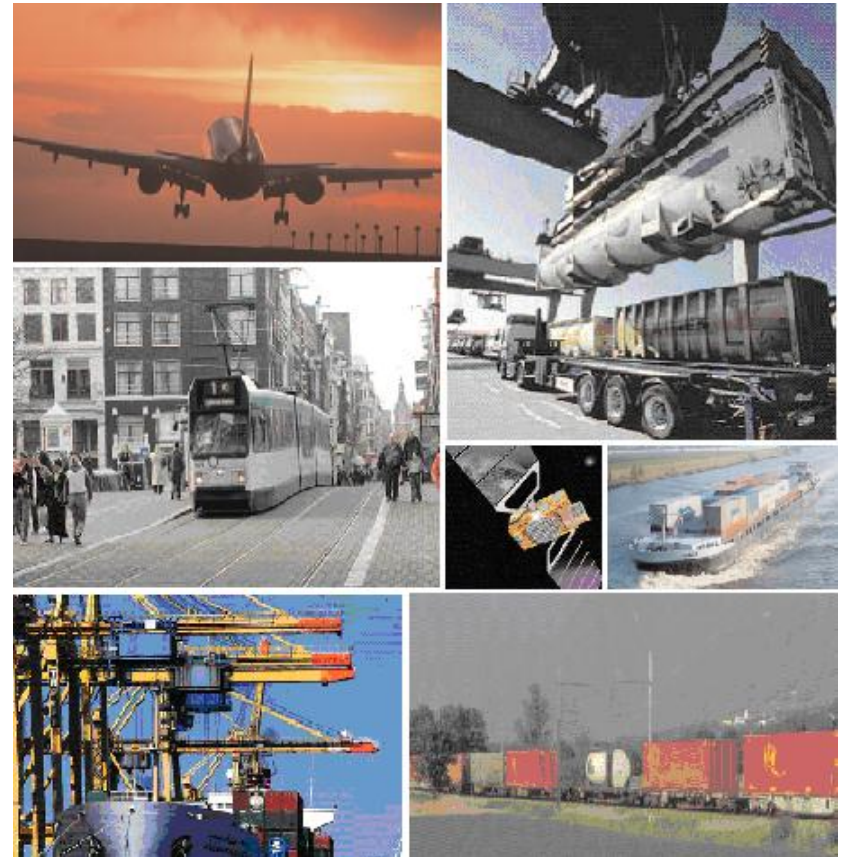
and that *enhances*

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



● *Technology led: ICT in all transport modes*

- SESAR
- River Information Services
- SafeSeaNet
- Vessel Traffic Monitoring & Information Systems
- ERTMS / TAP-TSI
- ITS-for-Roads
- Galileo/EGNOS



White Paper 2011 on Transport 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



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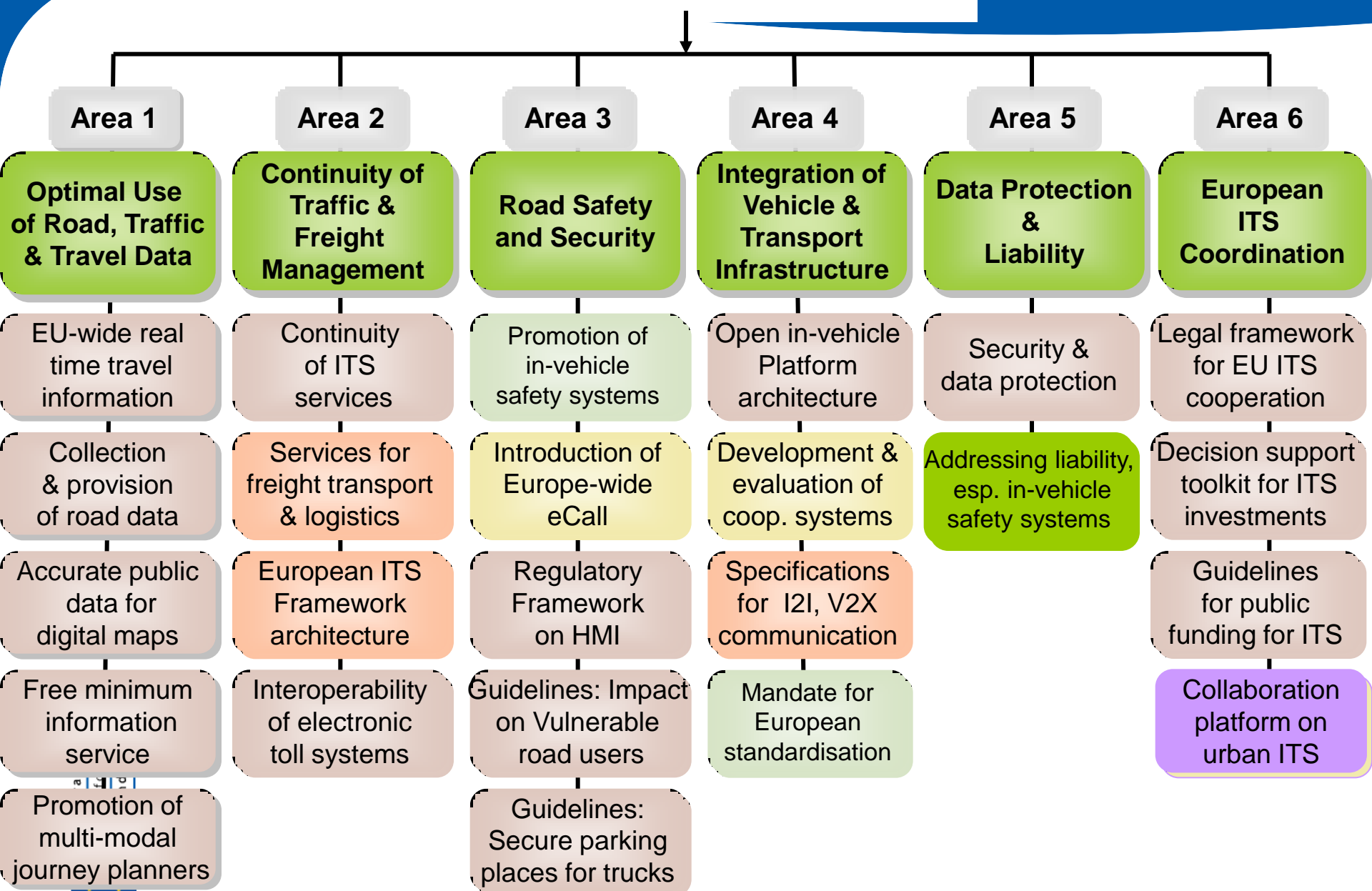
● Policy framework for the deployment of ITS in Europe

- **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**

- » to coordinate and accelerate deployment of ITS
- » to tackle bottlenecks for deployment
- » to make road transport more sustainable

ITS Action Plan



● Directive 2010/40/EU

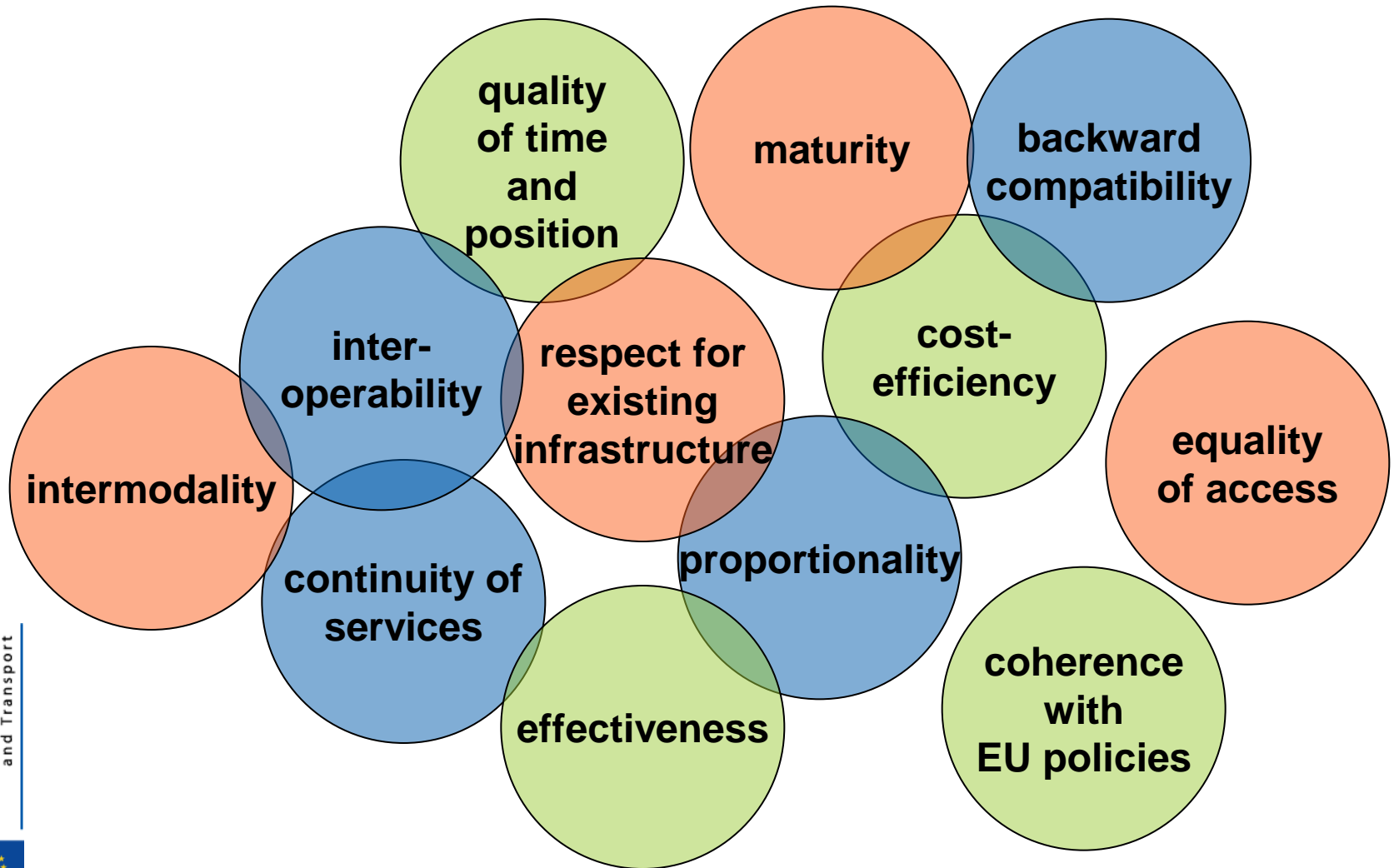
in force since
26 Aug 2010

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

Objectives:

- Establishing a **framework** for the coordinated and effective deployment and use of ITS
- Setting common priorities
- Development of **specifications** and standards focused on *interoperability* and *continuity*
 - » functional, technical, organisational & service provision-related

Principles for Deployment



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

Appointed in Jan 2012

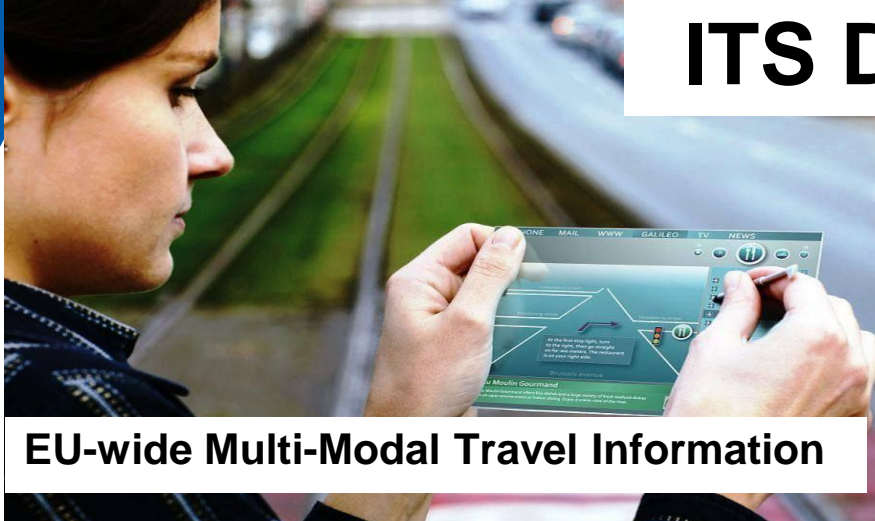
Chair: Commission

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

ITS Directive



EU-wide Multi-Modal Travel Information



EU-wide Real-Time Traffic information



Free safety-related minimum Traffic Info



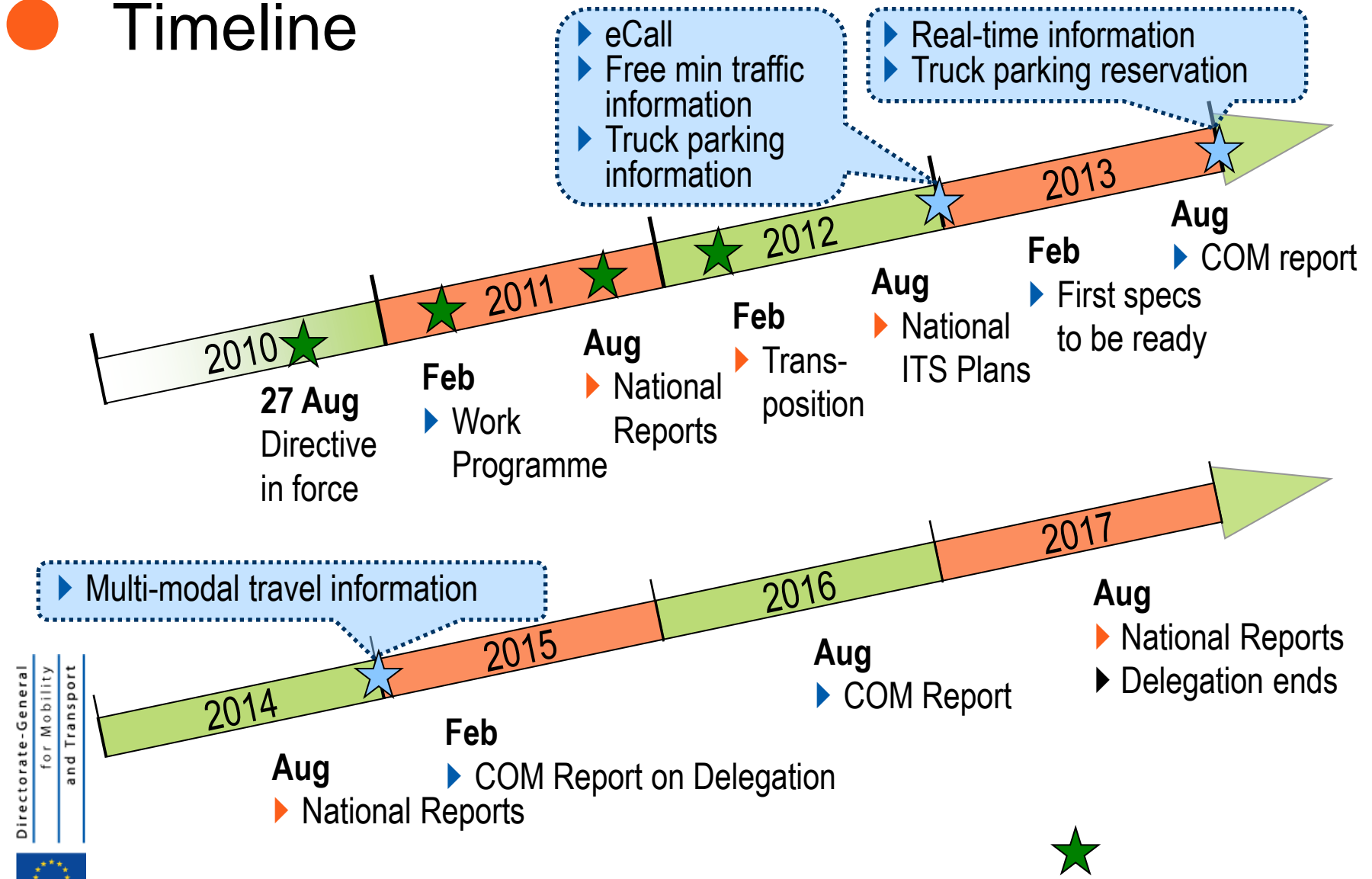
Interoperable EU-wide eCall



Information & Reservation systems for Truck Parking



Timeline



● ITS Directive/ **Annex 1**: Priority Areas and Actions

● Priority Areas:

- » I. Optimal use of road, traffic and travel data
- » II. Continuity of traffic & freight management ITS services
- » III. ITS road safety and security applications
- » IV. Linking the vehicle with the transport infrastructure

● Key words:

- » Access & availability of data
- » (Electronic) **Data Exchange**
- » Standardised interfaces

● The importance of DATEX II: a *key enabler* !

- Key outcome of effective cooperation (within EasyWay)
- Road Authorities in the driving seat
- Increasing interaction with private actors
- Standardisation achieved (first package > CEN TS)
- Further work ongoing / 'parts 4 & 5' plus new extensions
- Cooperation with TISA
 - to bring the data/ services into the vehicle
- Growing Community & operational use

➤ **Cooperation ... going beyond the bits & bites !**

DATEX II = a key driver for rolling out harmonised ITS

● DATEX II = a key enabler – *Challenges?*

● Maintain the *momentum*

- » Further standardisation ...in line with operational requirements
- » [Access to public data](#) to boost operational value & use
- » [Alignment to policy](#) framework

● Establish a robust, future-proof *framework*

- » Expertise & [buy-in](#) from stakeholders
- » Exploration of business opportunities
- » Sharing of knowledge - [User support](#) (Forum)

● Ensure *continuity*

- » Organisation & 'hosting'
- » Funding independent from (EC) project working
- » Promotion of CEN standards

- DATEX: making co-operation come true...
- The European Commission acknowledges & appreciates the work of the DATEX Community, and notably the contribution of EasyWay/ ESG5
- We wish you all a most successful conference !

● 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 !