



# ● Framework for the Deployment of Intelligent Transport Systems

## Directive 2010/40/EU

<Name>  
European Commission

September 2010

Directorate-General  
for Mobility  
and Transport





- **ITS Deployment Framework**

*Directive 2010/40/EU*

- Background & Objectives
- Priorities
- Specifications, Standards & Deployment
- Procedures & Timing

# ● Challenges of Road Transport

## ● Road congestion

economic losses of ~1 % GDP (125 billion €)

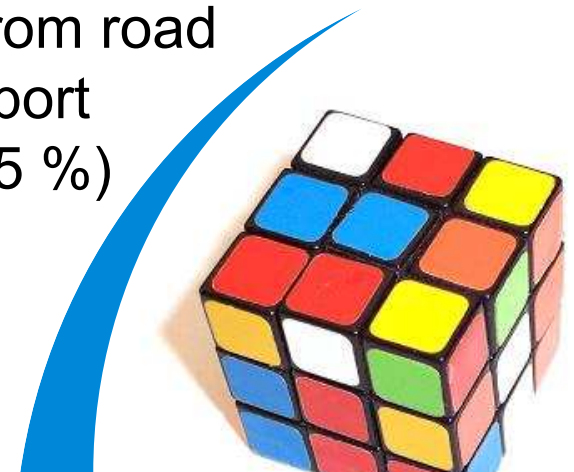
## ● Road Safety

> 35.000 citizens killed on the road per year

## ● Climate Change

- » 71 % of transport CO<sub>2</sub> emissions from road
- » growing CO<sub>2</sub> emissions from transport if business-as-usual (2010-50: + 25 %)

>> Response cannot be focused on expansion of infrastructure



# ● Intelligent Transport Systems (ITS)

## ITS

**Use of information and communication technologies in transport**

### **Examples for road transport**

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



# ● Status of ITS Deployment in Europe

- Fast technical development
    - > mature applications
  - Fragmented and uncoordinated deployment
  - Little continuity of services
  - Low degree of intermodality
- >> Patchwork of national, regional and local solutions



## ● EU Policies on ITS

**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

## ● 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

## ● Priority Areas

Optimal Use of Road,  
Traffic and Travel Data

Continuity of  
Traffic and  
Freight Management

Road Safety  
and Security

Linking Vehicle and  
Transport Infrastructure

- ▶ 6 Priority Actions > see next slides
- ▶ all defined in Annex I





## ● EU-wide Multi-Modal Travel Information

SOURCE: European Commission



## ● EU-wide Real-Time Traffic Information

SOURCE: ADAC



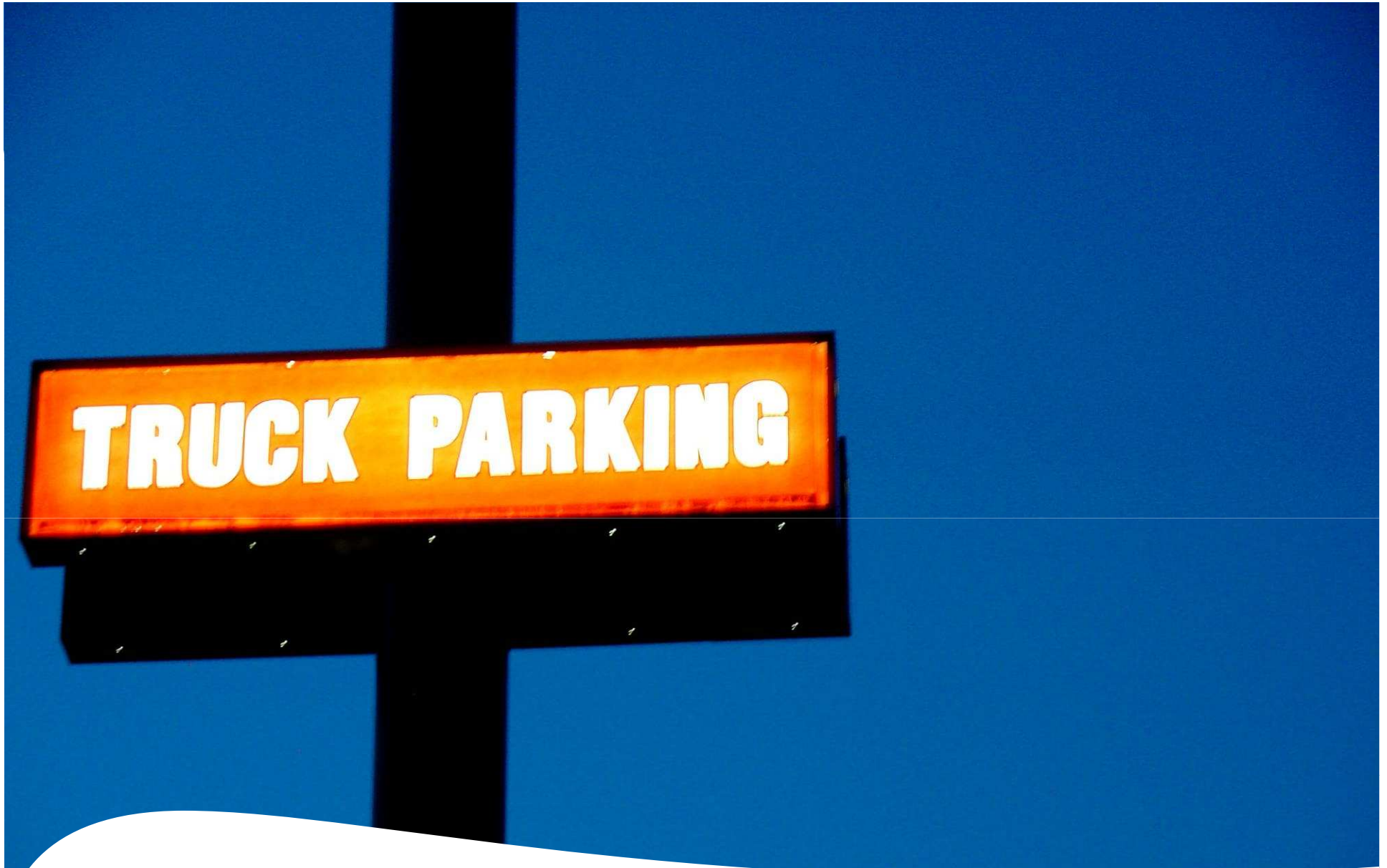
● Free Safety-Related Minimum Traffic Information

SOURCE: [stock.xchng](#) - freschje



- Interoperable EU-wide eCall

SOURCE: European Commission



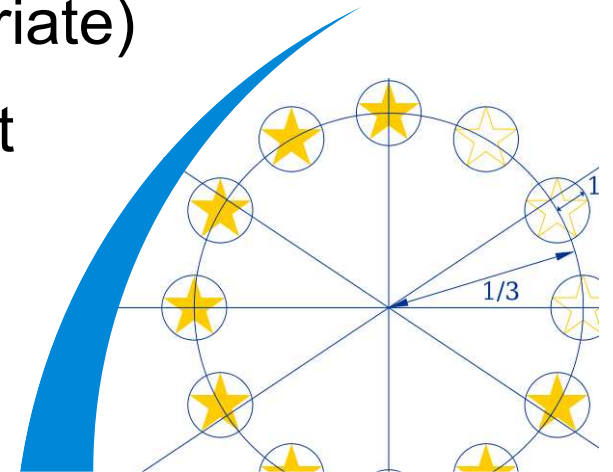
- Information Services for Truck Parking

SOURCE: [stock.xchng](#) - onatos



# ● Specifications

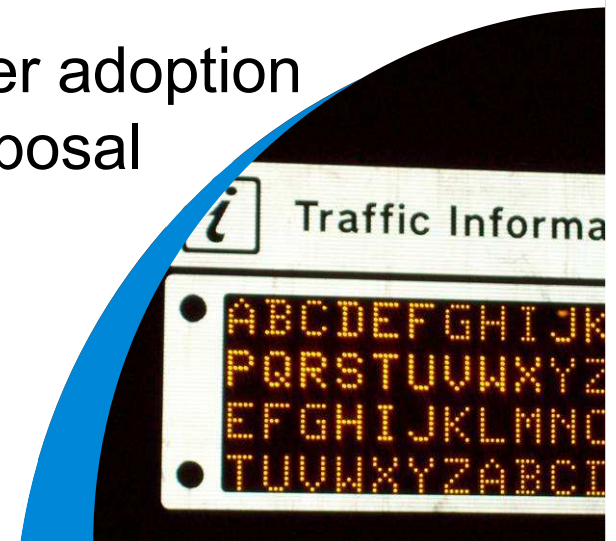
- Aims: compatibility, interoperability and continuity
- Binding measures (requirements, procedures, etc.)
- Functional, technical, organisational, service provisions
- Possible conditions for additional national rules
- Based on standards (where appropriate)
- Impact assessment and cost-benefit analysis prior to adoption



# ● Deployment of ITS

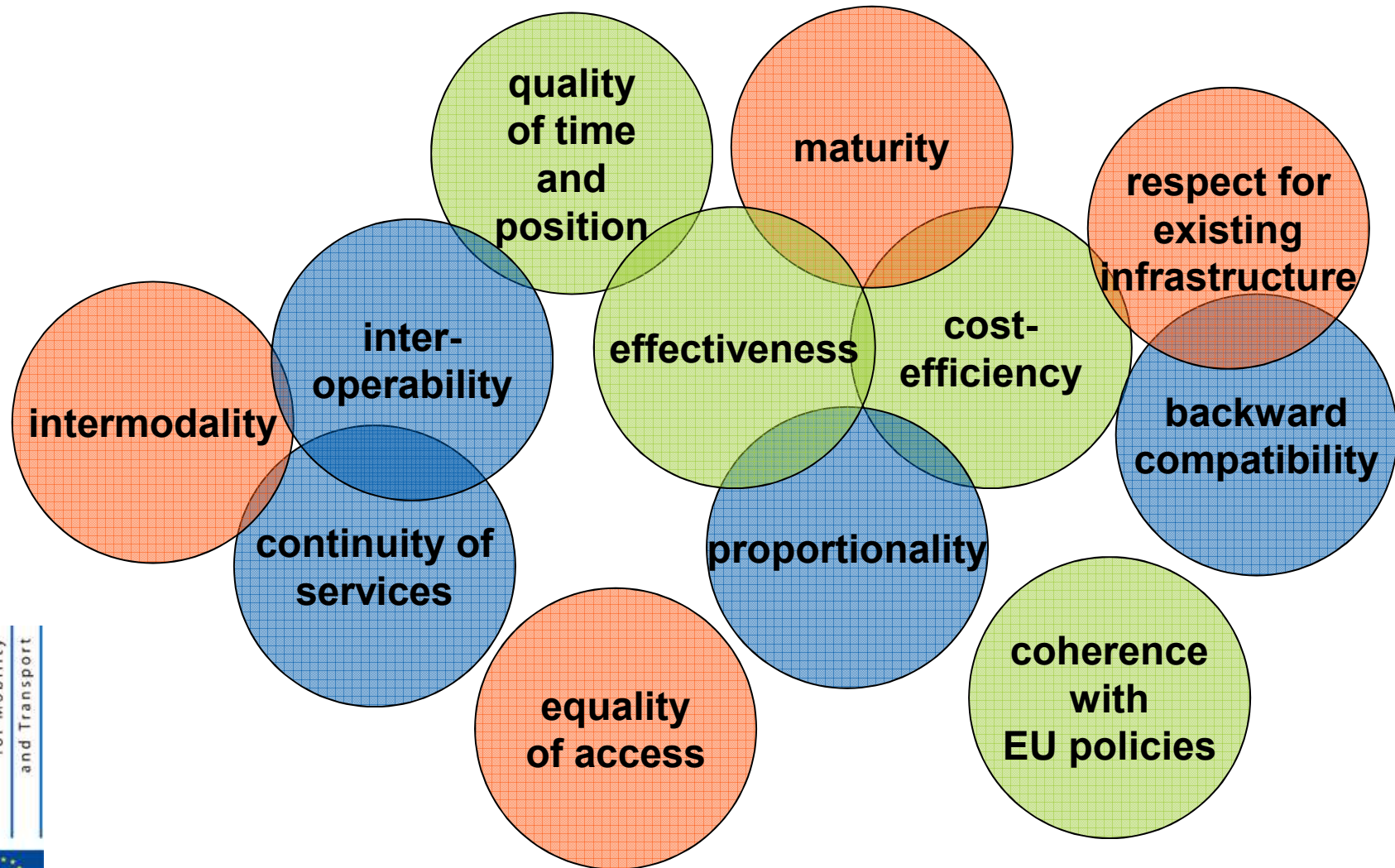
## Member States

- » ensure use of specifications when ITS is deployed
- » cooperate in respect of priority areas
- » deployment obligation only after adoption of subsequent co-decision proposal





# Principles for Deployment



- Standards, Non-Binding Measures
  - Development of standards for interoperability, compatibility and continuity
    - » mandates to standardisation bodies
  - Commission may adopt guidelines and other non-binding measures to facilitate cooperation



# ● Privacy and Liability

Member States to ensure ...

- Existing Union rules on **privacy**
  - » protection of personal data, data minimisation, anonymity, purpose limitation (= privacy by design)
  - » Directives 95/46/EC and 2002/58/EC
- Specifications in accordance with Union law and national legislation on **liability**
  - » Directives 85/374/EEC and 1999/34/EC (liability for defective products)
  - » if necessary, Commission guidelines on liability



# ● Procedure: Delegated Acts

- Art. 290 TFEU (Treaty on the Functioning of the EU)
  - » legislative act may delegate to the Commission the power to adopt non-legislative acts
  - » to supplement or amend certain non-essential elements of the legislative act
- ITS Directive
  - » power granted to Commission for 7 years
  - » can be revoked by Council or EP
- Notification of delegated act to Council and EP
  - » objection within 2 months (poss. extension by 2 month)
  - » if no objection, delegated act enters into force

## European ITS Committee

*Chair: Commission*

▶ Member States

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

## European ITS Advisory Group

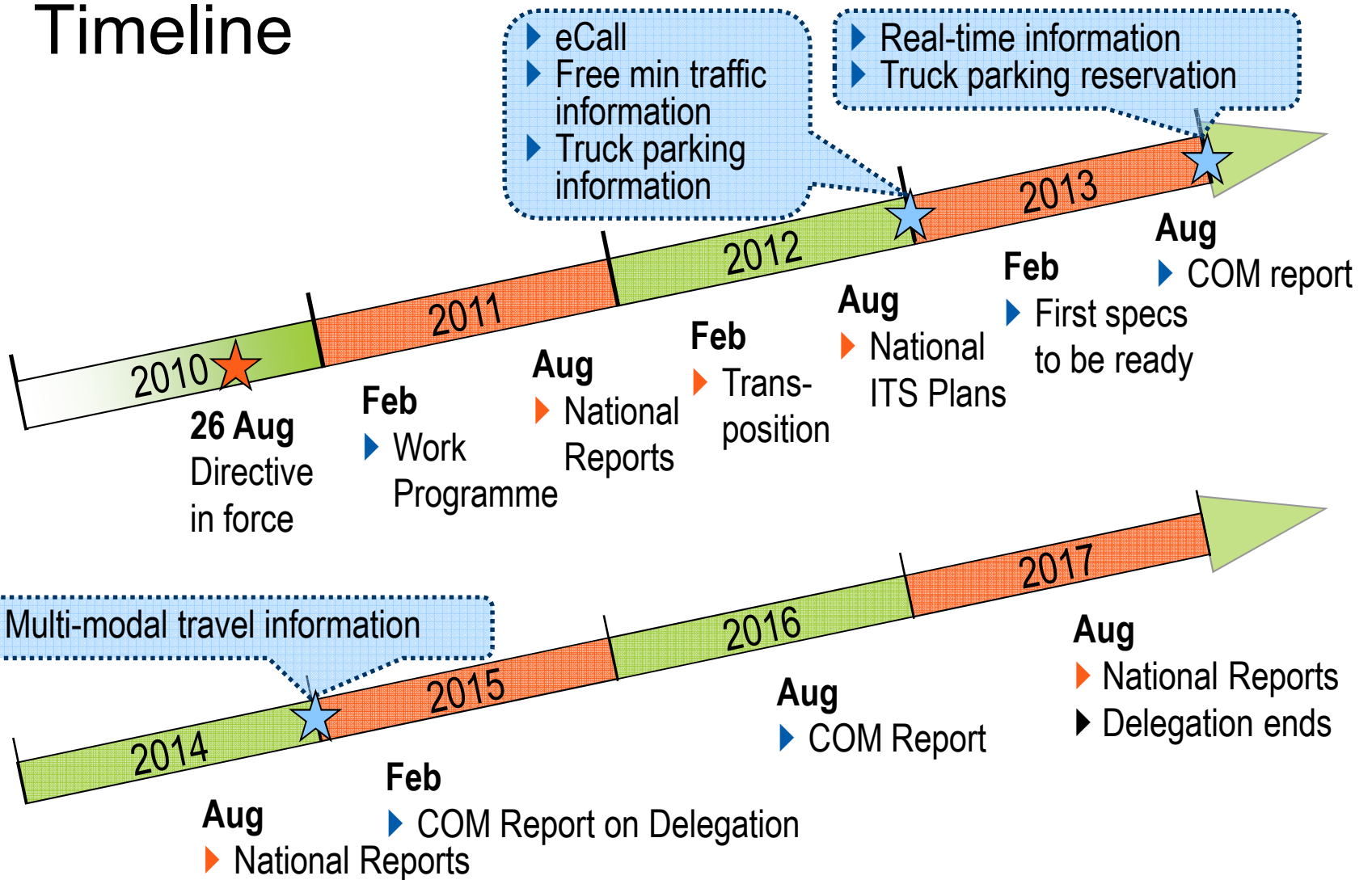
*Chair: Commission*

### *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



## ● In Brief ...

1. ITS can **save 10-15%** fatalities, congestion and CO<sub>2</sub> emissions
2. ITS Directive and Action Plan to **accelerate** ITS deployment across Europe
3. First EU-wide legislative basis for a **coordinated deployment** of road ITS (and interfaces)
4. Directive foresees development of (binding) **specifications** but no deployment obligations
5. Key objectives of **interoperability** and **continuity** of services



- More information



## ITS Directive and Action Plan

[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 !*



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