

# Tapping the full potential of Intelligent Transport Systems



Meeting of Chairpersons of Communications,  
Education and Transport Committees  
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# Traffic evolution

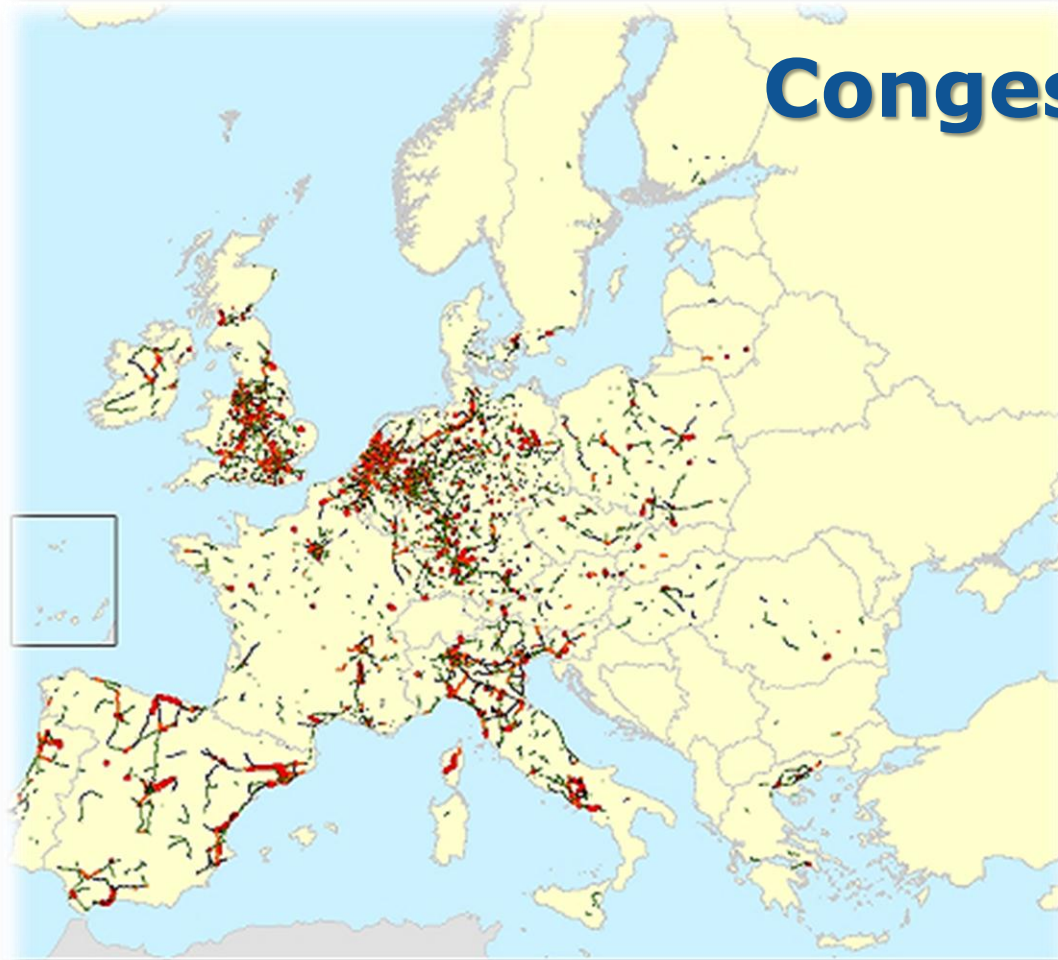
**1913**



**2013**



# Congestion levels 2030

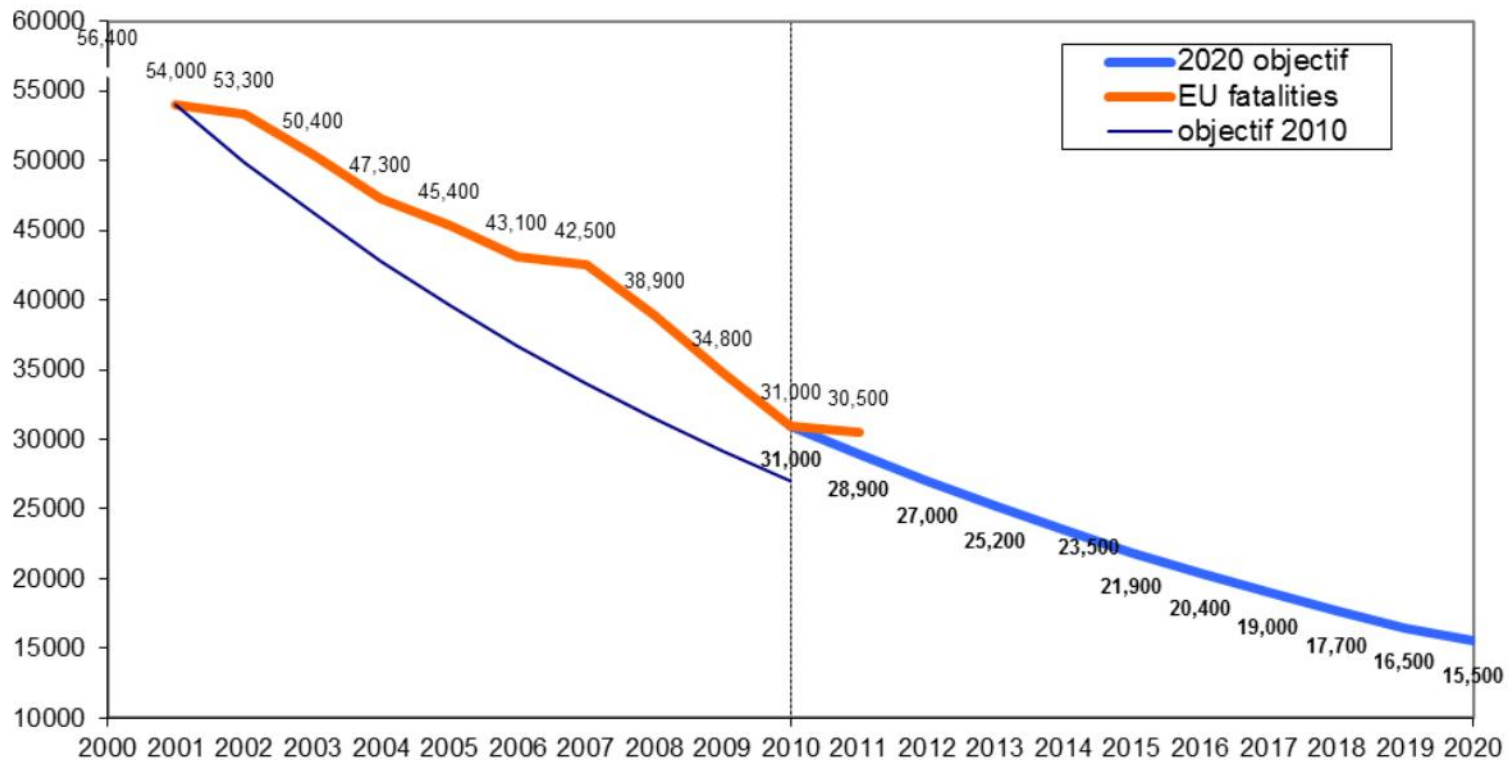


**Congestion levels 2030**  
**Inter-urban road traffic**  
**TRANSTOOLS projection, major links**  
**Use of available traffic capacity**

— 60% - 70%	— 80% - 90%
— 70% - 80%	— over 90%

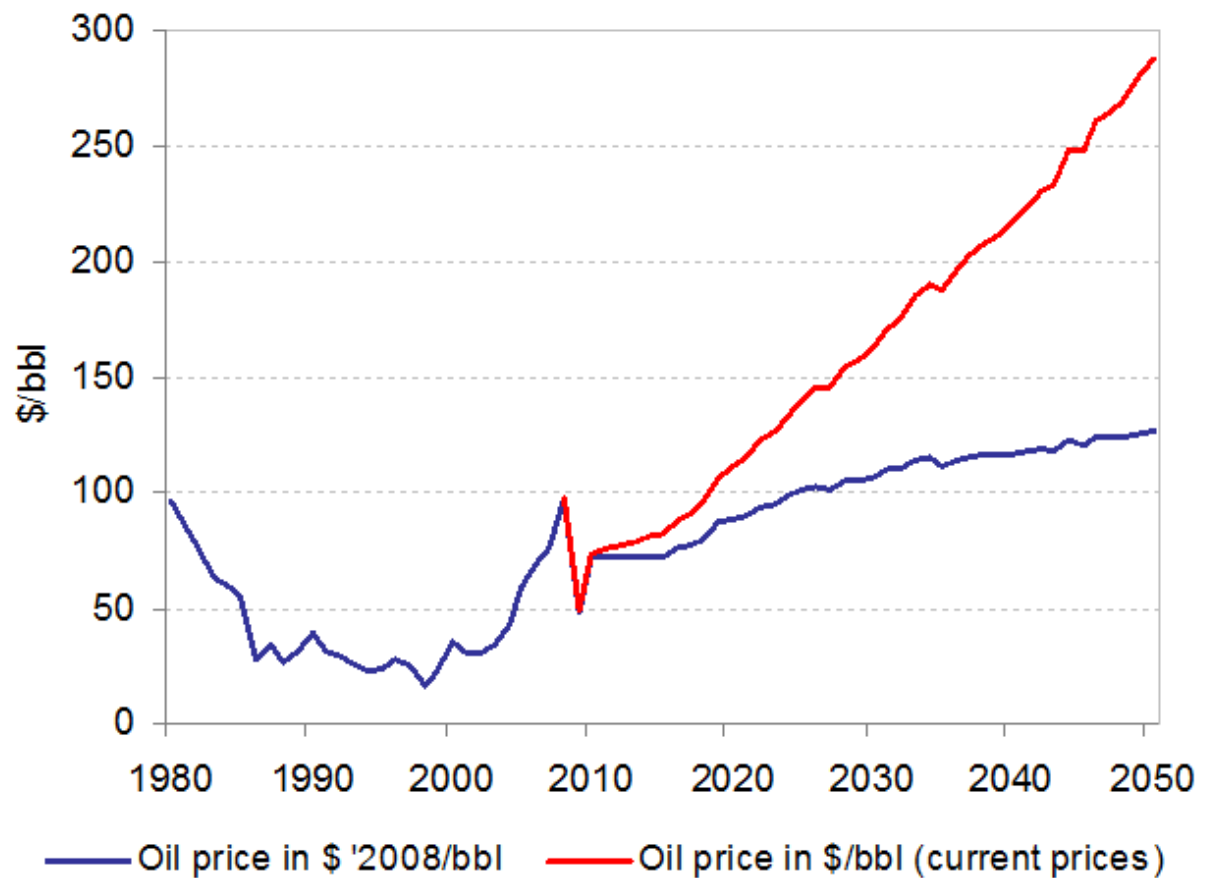
Sources : TransTools v2.1.10, reference scenario  
 © 2010 Copyright, JRC, European Commission  
 Coordinate Reference System:  
 ETRS89 Lambert Azimuthal Equal Area

# Road fatalities in the EU since 2001



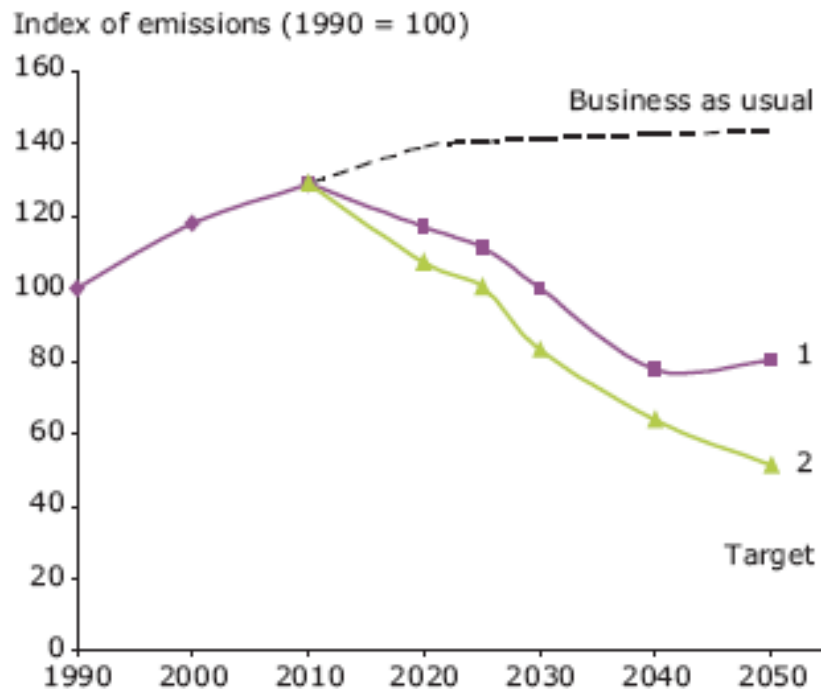
Source: CARE (EU road accidents database)

# Ever higher oil prices





# Reducing GhG emissions



Each curve shows the additional effect of adding further instruments.

- 1 'Improve' package: improved engine and vehicle design, electric cars, low-carbon fuels and technologies encouraging behavioural change. These measures lead to a 44 % reduction in transport CO<sub>2</sub> emissions.
- 2 'Avoid and shift' package: road pricing, car clubs, increasing population density in cities, travel planning. These measures lead to a 20 % reduction in transport CO<sub>2</sub> emissions.

Source: European Environment Agency

# ITS deployment: a fragmented landscape



- (+) Very fast paced technology development*
- (+) A series of applications ready for the market*
- (-) Fragmented, not coordinated deployment*
- (-) Insufficient cross-border continuity of services*
- (-) Low degree of intermodality*

# Policy framework for the deployment of ITS in Europe



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

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



# ITS Directive – Priority Actions



***EU-wide Multi-Modal  
Travel Information***



***Free Safety-Related  
Minimum Traffic Info***



***Interoperable EU-  
wide eCall***



***EU-wide Real-Time  
Traffic Information***



***Info & Reservation  
systems for Truck  
Parking***

# Saving lives with eCall



***eCall system **to be fitted** to all new models of cars starting **from 2015*****

***40% quicker for an ambulance to get **to the accident site in urban areas** and **50% in the countryside*****

***Save up to 2500 lives a year***

# Multimodal Travel Information and Planning

*Enabling smart choices* by providing the traveller with **complete and reliable information** about various possibilities of travelling from A to B

*Current offer far from being complete*

*Elements to be addressed:*

- Ensure **access to transport data**
- Ensure **interoperability** of formats
- Facilitate efficient **stakeholder cooperation**



# Connecting Europe Facility (CEF)



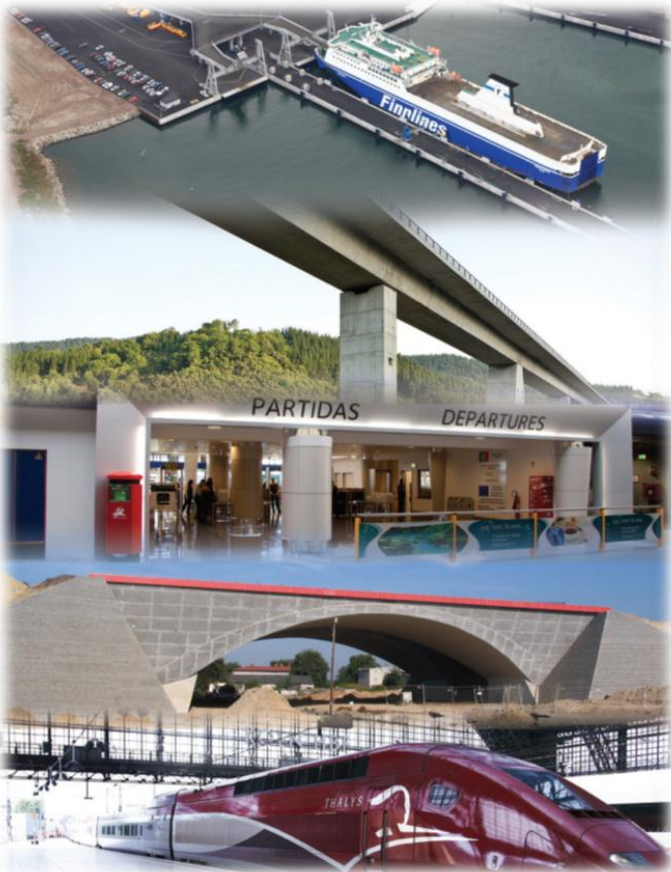
***Dual layer approach*** based on an objective methodology:  
core and comprehensive network;

***Ambitious standards*** for all infrastructures;

***Common deadlines*** to achieve network (2030/2050);

***Corridors and coordinators*** for implementation.

# High standards (to be realised by 2030 for the core network)



**Rail:** ERTMS, 22.5 t/axle, electrification, 750 m train length, 100 km/h line speed

**Inland Waterways:** RIS, class IV

**Airports:** rail and road links into the network

**Ports:** rail and road links into the network

**Road:** ITS, parking facilities.



# Horizon 2020:

*Resource efficient transport that respects the environment → **sustainable***

*Better mobility, less congestion, more safety & security*  
→ **seamless**

Global leadership for the European transport industry  
→ **competitive**

*Socio-economic research & forward looking activities for policy making → **responsive***



# Potential topics related to ITS



- o ***Optimal use of data** to improve mobility*
- o ***Improving safety and security** in transport*
- o ***Linking transport means** with each other and with transport infrastructure*
- o *Applying **connected automation** in road transport*
- o *Components for the **next generation** energy-efficient **transport means***

# From research to market: funding

## **Targeting innovation:**

*e.g. inducement prizes, pre-commercial procurement*

## **Financial instruments:**

*e.g. access to risk finance, debt/equity facilities*

## **Collaborative research projects:**

*incl. close-to-market activities (prototypes, demos)*

## **Support actions:**

*e.g. social innovation, dissemination, expert support*



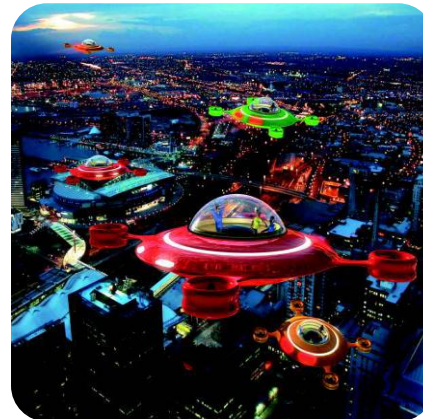
**1913**



**2013**



**2113 (?)**



Source: Out of the Box  
project

**2113 (?)**



**Many thanks for your attention!**