

45TH ASECAP STUDY & INFORMATION DAYS 2017 The Concession model in the decarbonization era: preparing the infrastructure of the future

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Maintenance and Preservation of the assets:

Ensuring the highest standards for safety

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The road sector in Europe: Facts and Figures

≻<u>Length</u>:

European Road Network: +/- 5.5 million km

Contribution to the economy:

- Direct: 5 million jobs or +/- 5% of the EU GDP*
- Indirect: 14 million jobs or +/- 11% of the EU GDP**

The major community asset:

- Estimated reconstruction value: > 8 trillion €***
- * Source: EC

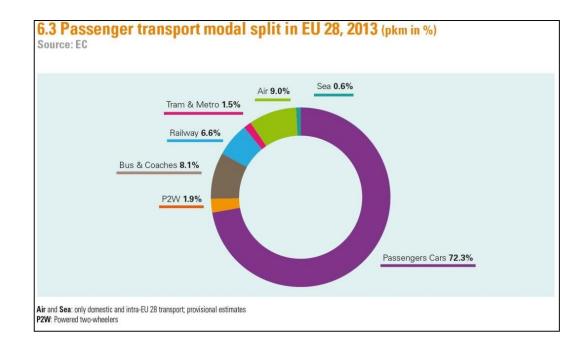
** Source: ERTRAC

*** ERF estimation

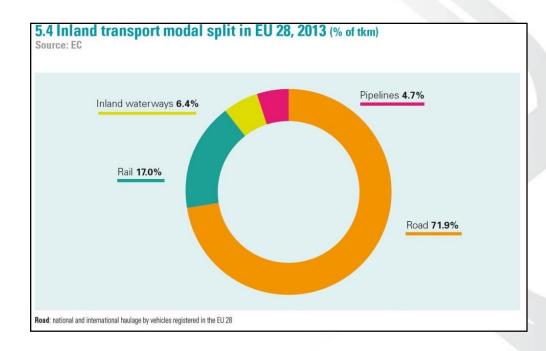


Roads are the backbone of the economy

82,3% of EU inland passenger transport



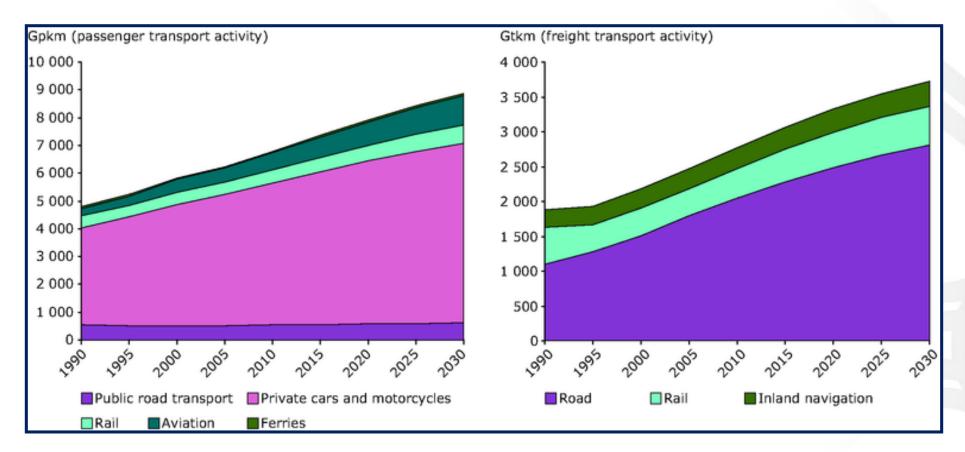
71,9% of EU inland freight transport





Roads are the backbone of the economy

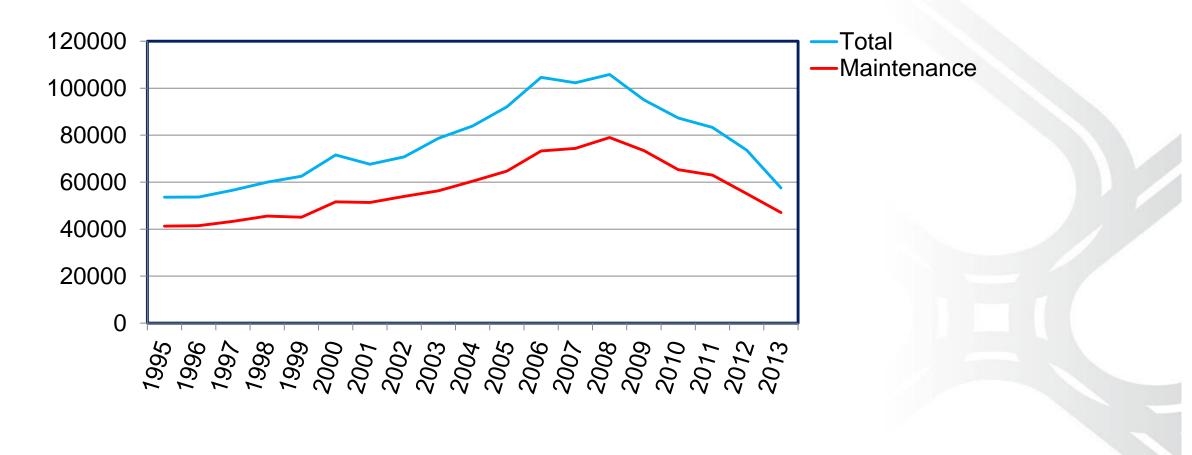
Evolution forecasts





Trends in road infrastructure financing

Evolution of road infrastructure investments in 26 EU countries – total and maintenance (in M €)





Consequences of the backlog in maintenance (1)

Impact on the economy

- Loss of value
- Reduced mobility

Impact on Road Safety

- Degradation
- Risks of accidents and dangerous situations

Impact on the environment

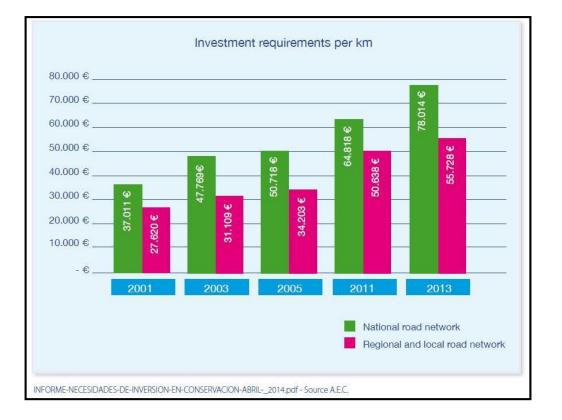
- Traffic jams, congestion
- Increased emissions

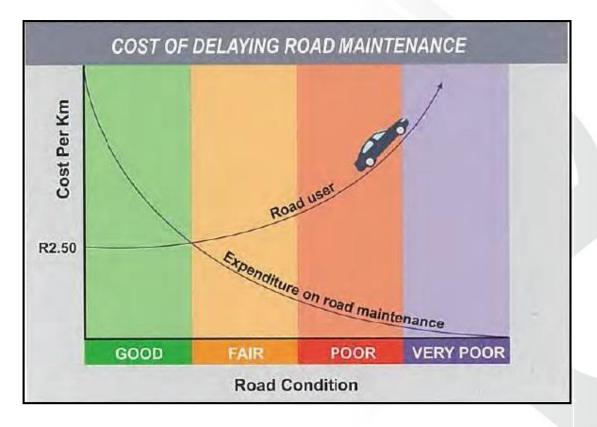






Management costs for the road owners and usage costs for road users







- Very dense industrial area (chemical industry)
- Important traffic (high percentage of HGVs)
- > Ageing structure maintenance backlog



- Closed to traffic > 3,5 T from Dec. 2012 to March 2013
 ➢ Estimated social cost (loss of time, additional fuel consumption, delays...):
 80 million €
- Closed again to heavy traffic from June 2014, until...?

Example: Lecco and Ancona (Italy)



> Lecco bridge collapse (October 2016):

- 1 dead
- 5 injured





> Ancona bridge collapse (March 2017):

- 2 deads
- 3 injured



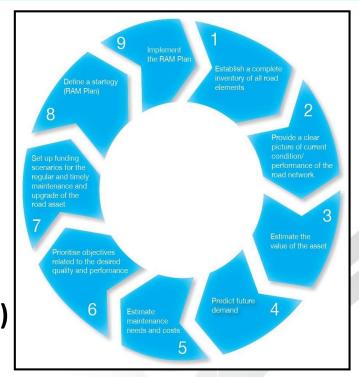




Smart Management of the Road Infrastructure (1)

The Road Asset Management Approach

- Consider the road as an asset
- Knowledge of the value and the current condition of the asset
- Regular financial and technical evaluation
- Use of key performance indicators
- Level of service
- Long-term perspective
- Through the whole life cycle (construction, operation, maintenance)
- Adaptation, improvement and upgrade
- Better strategy and decision making tools
- Pluriannual financing programmes
- Incorporate future evolution (climate resilience, traffic, new vehicles, new mobility patterns, new usages...)





New opportunities (1)

Research / Development / Innovation

- Lots of RD&I from the industry side
 - ✓ Materials (sourcing, recycling, disposal...)
 - ✓ Equipments (speed, performance...)
 - ✓ Processes (technologies, additives, resilience...)
 - \checkmark Assessment methods (GHG of CO₂ calculators, social responsibility...)
 - ✓ New vehicle technologies and road usages
- Encourage, support and coordinate actions for innovation and implementation
 - ✓ Legislative and regulatory framework (reinforced cooperation public/private)
 - ✓ Incentives for performance, long-term objectives
 - Innovative contracting and management methods
 - ✓ Optimisation of resources for maintenance and improvement
 - ✓ Incorporation of new technologies (e.g. ITS,...)

Smart Management of the Road Infrastructure (3)



New opportunities (2)

Improved dialogue and cooperation between stakeholders

- Better communication with road owners
 - ✓ Platforms of exchange of knowledge
 - ✓ At all levels (European, national, regional, local)
 - ✓ Long-term vision (competitiveness)
 - ✓ Improved mobility
- Include the road users in the framework
 - $\checkmark~$ Better ownership on the citizen side
 - ✓ Social cohesion and improved integration of roads to all transport modes
 - ✓ Level of Service: 'Road as a Service'

The ERF commitment

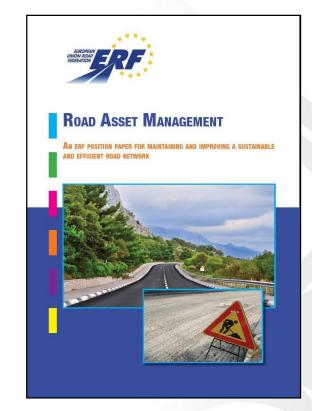


The ERF Manifesto on Road Asset Management



http://www.erf.be/images/stories/Road Asset Management/Screen-ERF.pdf

The ERF Position Paper on Road Asset Management



http://erf.be/images/Road-Asset-Management-2014-07.pdf





The Voice of the European Road

Thank you for your attention

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www.erf.be