



Adapting the infrastructure to achieve Digital transformation of road network

SUSTAINABLE & SMART
MOBILITY STRATEGY

ASECAP Days
25 November 2022

SMART MOBILITY - ACHIEVING SEAMLESS, SAFE AND EFFICIENT CONNECTIVITY

- Offering a seamless multimodal experience
- Supporting sustainable choices by taking advantage of digitalization & automation
- Shaping the mobility of the future
- Ensuring the right framework and enablers are in place



Efficient & Green Mobility

- Proposal to amend the **ITS Directive 2010/40/EU**
- Extension of the scope of the Directive to
 - **Mandate availability of crucial data** (real-time traffic information, road-safety related events and multimodal travel information services)
 - **Mandate deployment of essential services** (currently road safety, C-ITS also included in the Impact Assessment but requires additional new legislation)

Efficient & Green Mobility

Expected impact of the revised Directive until 2040 (includes mature C-ITS services)

- Time saved benefits of €145 bn
- Reduction in cost of accidents €30 bn
- Total cost of €21 bn
- Benefit-cost-ratio: 8.6
- The positive effects of digital mobility services on multimodality, as well as those of highly automated vehicles, cannot yet be reliably estimated and are NOT yet included

C-ITS is on the road!

- 1 million vehicles sold
- 20.000 km roads equipped with C-ITS
- Combined with long-range 100.000km are covered by C-ITS services
- Focus on road safety and traffic efficiency
- Prepare for higher levels of automation
- 5.9 GHz spectrum extended to 50MHz



What is next?

- Interoperability and cooperation remain crucial
 - Vehicles and infrastructure
 - Road operators and cities
- Backward compatibility because every additional station increases the effectiveness of the system
- Advanced use cases integrate with ADAS



Image: NHTSA

What about automation?

- Bring us on the path towards near zero road fatalities
- Increase accessibility of mobility services
- Help reduce emissions from transport by making traffic more efficient

Accelerate the deployment of innovative CCAM systems and services for passengers and goods

We want CCAM systems, which

- are fully integrated in the transport system, accompanied by the right support measures of the public sector
- support new mobility concepts, shifting from a driver-centred to mobility-user oriented approach

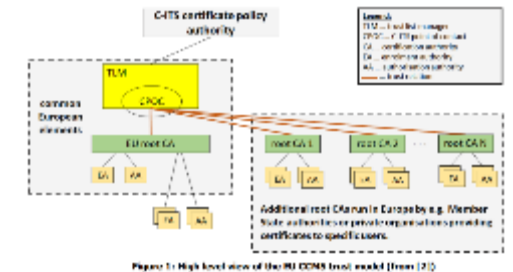
Connecting it all

- Smart mobility connects all the dots
- Digital infrastructures exchanges info and collaborates with vehicles
- Futureproof deployment supports human drivers today and prepares for driverless vehicles tomorrow
- Essential that public and private investments are aligned
- Functional safety for infrastructure



What is the Commission doing

- Propose legislation, Efficient and Green Mobility
https://transport.ec.europa.eu/news/efficient-and-green-mobility-2021-12-14_en
- Ensure EU Trust system for C-ITS
<https://cpoc.jrc.ec.europa.eu/index.html>
- Support deployment of harmonised C-ITS
<https://www.c-roads.eu/platform.html>
- New EU Partnership on CCAM
<https://www.ccam.eu/>



THANK YOU