Truck platooning in Europe

TAC 5 Septembre 2018
Odile Arbeit de Chalendar
Ifsttar
EU Context

Political agenda to be aligned with climate and energy targets

R&D
Financial incentives and investment

TAC
Large scale testing
Sharing experience
Skills gap
Batteries

Legal
Revised traffic rules systems
Homologation
Privacy
Liability
Data use & exchange
Context and challenges

Context:
- Road transport = 75% of good transport (EU 28 2013)
- Transport responsible for 25 % of CO2 emission
- Driver shortage

How does it work?
- V2V connection radar, lidar wifi
- Emergency braking vs driver
- Reduced distance 50 m vs 10 m

Foreseen benefits:
- Fuel saving 10% / Less CO2
- Safety + Driver efficiency: 2/27 B€
- Impact on traffic
- Infrastructure use: 2 to 27 B€
- Optimisation of Logistics 30%
- Driver time legislation?
- Driving regulation?
**Pilot TAC countries involve:**
✓ Adapted transport legislation
✓ Existence of Test sides and Real road,
✓ Research by Academia and Industry

**Message:**
• Platooning strong potential benefits
• Addressing next political roadmap for long term innovation, deployment of platooning (Amsterdam declaration)
• Joint effort government & industry

**Jointly develop:**
• Corridors
• Public road (mutual recognition of exemption)
ETPC challenge 2019 at stake

Aim:
• Public authority & Industry common understanding & joint efforts
• Mutual recognition between countries
• Convoys across European on ITS corridors

Message:
• Platooning has strong potential benefits on European roads
• Addressing next political roadmap for long term innovation, deployment of platooning

Facts:
• April 2016
• Six EU Brands together
• Corridors
• Public road (exemption by several countries)
• Level 2-4
ETPC network (affiliated and supporters)

Networks & Platforms:

- ETRAC
- Gear 2030
- C-ITS
- Cartre
- EIP

European truck platooning challenge network

ETPC: 150 public & private stakeholders in truck platooning

Some Académics: VTT, VTI, TNO, Delft, Eindhoven, Austriatec, DLR, RTWH, TFL, Leeds, ...
Mission:
**Inter-operable** platooning
Ensure correct and safe operation
Generic solution for Safe platooning
Key aspect to ensure acceptance of platooning
Fail-safe & fault-tolerant Real-life platooning
Testing grounds and real life

**Facts:**
3 year EU project, starting latest June 1st 2018, 20 millions euro funding EC

**17 partners:** including 6 truck manufacturers and CLEPA representing automotive suppliers, Ifsttar, Idiada

**Demonstration:**
Six differently branded trucks in platoons
Under real world traffic conditions
Across national borders.
To pave the way for the adoption of multi-brand truck platooning in Europe
To assess impacts on traffic safety,
Thank you for your attention

Odile.arbeit-de-chalendar@ifsttar.fr