

A regulatory framework for connected and automated driving Towards a strengthened cooperation

3rd SIP-adus WS TOKYO, JAPAN

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1. Context

- 2. Developing a supportive policy and regulatory framework
- 3. The European policy and regulatory framework
- 4. Towards a global policy and regulatory framework
- 5. Japan-EU cooperation



1. Context



CONNECTIVITY POTENTIAL

A vehicle with access to mobile network...



... exchanging 2-ways data with its environment...

Road infrastructure (Traffic lights, parking, tolls...)

(Drivers, pedestrians...)

(Mobile devices (Mobile, tablet, smartwatch...)

Service providers (Leaser, insurance, hotel...)

other vehicles

... and allowing a wide range of Mobility services



NEW ALLIANCES/CO-OPETITION

Traditional automotive business models will change

- Manufacturers are evolving from being 'just' producers of vehicles to providers of integrated mobility solutions
- That's why our industry has to establish new alliances with nonautomotive partners in the telecom and IT sectors ...
- ... and develop innovative mobility solutions around new technologies together with other players

At the same time, these disruptive developments will bring great change to our industry

 Not only competition from other world economies, but also non-traditional players (large IT companies)







Infra players





Managing expectations

Correct expectations on big data and access to all data ?
Automotive industry meets new industries such as IT/telecoms with sometimes different agendas and expectations
Anti-trust law prevents intense collaboration models
Harmonization, coordination on standards, safety etc. takes time

Future proof concept

- Technology progresses at speed of light. Choosing one or another technology may hinder flexibility for automotive business
- Connectivity makes us more dependent and vulnerable (e.g. cyber attacks)
- Society may not be able to absorb the tech (r) evolutions. Aging society, digital divide, shortage of digital skills



2. Developing a supportive policy and regulatory framework







POLICY AND DECISION-MAKING LEVELS

- Global framework
 - UN (Vienna Convention, UNECE)
 - ITU (radio spectrum)
 - ISO and SAE (standardisation)
 - G7
- European Union framework
- Japan–EU cooperation





3. The European policy and regulatory framework



- Competences fragmented between EU and 28 member states
- Umbrella strategy: the Digital Single Market
 - Single market remove obstacles to digital economy
 - Trust in digital data/security environment
 - Competitiveness of the industry
- Three Commissioners in charge
 - Elżbieta Bieńkowska Industry
 - Günther Oettinger Digital economy and society
 - Violeta Bulc Transport









EU INDUSTRY DIALOGUE between EU automotive and telecom industries

- Initiated in September 2015 by Commissioner Oettinger
- Sectors identified three key areas for pro-active cooperation
 - Connectivity: improving broadband roll-out, network coverage and reliability
 - Standardisation: promoting take-up through interoperability
 - Security: ensuring that all data transmission to and from vehicles, as well as all data processing that is required, occurs in a secure manner
- Triggered the creation of the European Automotive-Telecom Alliance
 - Objective is to accelerate the deployment of connected and automated vehicles alongside digital highways across Europe
 - Through a mega European pre-deployment project starting in 2017



4. Towards a global policy and regulatory framework



- Global harmonisation is crucial for a timely and cost efficient market development of connected and automated vehicles
- Agenda for concrete action
 - Changes to Vienna Convention to allow for higher degrees of automation
 - Update of UNECE Regulation 79 on type approval of steering equipment
 - ⇒ ACEA greatly appreciates support from Japan to allow for the introduction of automated steering above 10 km/h
 - Japan and the EU need to establish a common vocabulary on the various levels of automation in a way that other nations can join easily



5. Japan-EU cooperation



- 1. On the 2017/2018 (field) operational tests in Japan, ACEA would be pleased to receive more details on the following:
 - Approach
 - Conditions
 - Expected outcome
 - Rights & obligations
- 2. With regard to the legal framework for fully automated driving systems, important for Japan to harmonise its requirements, as far as possible, with those in the EU and the US
 - We have to prevent that regulations for automated driving systems inadvertently act as a barrier to trade
 - For example, regulations on radio frequencies for V2X communication in Japan should be harmonised with the 5.9 GHz standard in the EU and US



3. Follow-up on the G7 Transport Minister's meeting in Karuizawa

- European Commissioner Violeta Bulc pleaded for intense G7 cooperation on driverless cars
- Opportunity for JAIA and ACEA to work together

4. Cyber Security

- Absence of uniform approach and standards
- Exchange of expertise needed
- Works ongoing at UN level in order to foster a global automotive cybersecurity security approach -> opportunity to foster a common global platform





ACEA

THANK YOU FOR YOUR ATTENTION

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