Update: EU Member States and beyond

Maxime Flament, ERTICO
With inputs from Ludger Rogge, EC DG RTD
Overview

- EU Members States
  - NL + EU Presidency
  - UK
  - Sweden
  - (Germany)

- EC initiatives on regulatory
  - GEAR2030
  - STRIA
  - C-ITS Platform
  - Oettinger RoundTable
EU Member States update: The Netherlands and EU presidency

• NL is very ambitious to take a leading position in smart and intelligent mobility
  • “Learning by doing” is a guiding principle.
  • Framework enabling testing of AV on public roads since July 2015
  • Launched the EU Truck Platooning Challenge in 2015
  • Organised Informal meeting of the Transport Council

• NL has put smart mobility and connected and automated driving high on the European political agenda
Report on Dutch EU presidency

• Highlights in the context of Connected / Cooperative Automation during Dutch Presidency
  • Truck Platooning Challenge and conference (6-7 Apr)
  • Demonstration of Self-Driving Vehicles to 28 EU MS ministers (14 Apr)
  • Informal transport council of EU Ministers of Transport (14 Apr)
    • Declaration of Amsterdam

Participants to the declaration of Amsterdam
Declaration of Amsterdam on "Cooperation in the field of connected and automated driving"

First political message on introduction of Connected and Automated Vehicles in EU:

- highlights the need for a shared European strategy on connected and automated driving
- lists all actions to be carried out by the Member States, European Commission and Industry

- Coherent rules
- Use of Data
- Privacy and data protection
- C-ITS communication infrastructure
- Security
- Public awareness
- Common definitions
- International Cooperation
EU Member States Updates:
United Kingdom

- Regulatory position DfT: Pathways to driverless cars
  - February 2015 – Regulatory review
  - July 2015 – Code of Practice
  - Amend domestic regulations by summer 2017 (Vehicle maintenance, Highway Code, Testing without a driver, safety standards required)
  - Amend international regulations by end of 2018 (Type approval, ISO standards, etc)

- Centre for Connected and Automated Vehicles CCAV
  - Three projects awarded in 2015 (£19m funding)
  - Eight new projects (£20m) to develop the next generation of autonomous vehicles
  - Further Government funding (£100m + matched industry funds)

- UK Connected Corridor A2/M2
EU Member States Updates: Sweden - Drive Sweden – Status Q2 2016

- Drive Sweden now fully operational
- Initial focus on enabling cloud technology
- New legislation for trials proposed – all clear as long as the manufacturer takes the responsibility.
- Scania and Volvo – proud ETPC participants
- Drive Me on track: pilots will begin in 2017
  - Autoliv and Chalmers joined
  - 100-car pilot on the ring roads (mainly highway)
  - Valet parking with City of Gothenburg
- Self-Driving Vehicle (SDV) pilots with 5G in Stockholm
EU Member States Updates: Germany - A9 Digital Motorway Test Bed

- Fully digitalised real condition test environment for tests of new technologies
  - V2X, Sensors, Data sharing, HD maps, RT information, Vehicle Positioning
- Use cases
  - e.g. Road works warning (RWW), Wrong way driving, Road ice forecast, Parking guidance and information for HGV, New Gen of Emergency phones, Intelligent bridges, Service stations of the future
EU Member States Updates: Germany - Pegasus

- Focus on Highway Chauffeur (Level 4 automation)
- Find effective processes and methods to validate automated vehicles: How can the quality and (functional) safety of the automated driving function be tested and verified?
- Audi, BMW, Daimler, Opel, VW, Bosch, CONTI, +9 others & 12 sub
- Jan 2016 – Jun 2019 (42 months)
- Budget: 34,5m€ (16,3m€ Funding) funded by the Federal Ministry for Economic Affairs and Energy
EC (Policy) initiatives related to connected and automated driving

- GEAR2030 (DG GROW)
- STRIA (DG RTD)
- C-ITS Platform (DG MOVE)
- Oettinger RoundTable (DG CONNECT)
- 5GPPP
- AIOTI
- BigData
GEAR 2030 - High Level Group

Objective
• To support the EU automotive industry to strengthen its competitiveness and to address the new challenges in the next 10 years

Composition of the HLG (25 members): Member States, Industry, Consumers, Trade Unions, Environmental protection, Road safety, ITS

Task of High Level Group
• Formulate a set of medium and long-term recommendations and action plans (time horizon 2030) for the following areas:
  • Adaptation of EU automotive value chain
  • Highly automated and connected vehicles
  • Global competitiveness
GEAR2030

GEAR2030 HLG & SHERPA

WG1: Adaptation of EU Value Chain
- PT1: Global landscape 2030
- PT2: Zero-emission vehicles
- PT3: Value Chain adaptation
- PT4: Human capital

WG2: Connected and Automated Vehicles
- PT1: Regulatory and policy issues
- PT2: Financial
- PT3: Competitiveness

WG3: Global Competitiveness
- PT1: Assessment of global competition
- PT2: Roadmap for economic relations with China

12 2016-04-22 Flament, AdaptIVe Workshop, Athens
GEAR 2030 – Working Group on "highly automated and connected vehicles"

Will develop an action plan for the roll-out of automated and connected vehicles:

• A shared vision of connected and automated vehicles by 2030

• A list of actions covering:
  • Review of the existing legal and policy framework for highly automated and connected driving (PT1)
  • Coordinated approach for financing R&I and large scale tests (PT2)
Strategic Transport R&I Agenda - STRIA

The STRIA initiative will support the development and deployment of transport low-carbon technology solutions (part of the Energy Union). STRIA will develop roadmaps to define research and innovation options for 7 technical areas (selected on the basis of their potential impact on the transformation of the EU transport system).

Relevant technical areas:

1. Electromobility
2. Alternative fuels
3. Vehicle design & manufacturing
4. Connected and automated transport
5. Transport infrastructure
6. Network and traffic management systems
7. Smart transport and mobility services (incl. urban)
Strategic Transport R&I Agenda - STRIA

Objectives for **Connected and automated transport**:  
• Identify potential contributions of "connected and automated transport" to the achievement of the EU climate and energy, competitiveness goals  
• Develop an integrated long term transport R&I strategy on connected and automated transport  
• Define policy options supporting research, innovation and wide market uptake
C-ITS Platform

Platform for the deployment of cooperative and intelligent transport systems – C-ITS

Report January 2016:
• Important milestone on the way towards the digitisation of transport
• Interesting conclusions in the areas of:
  • Security
  • Data protection
  • Hybrid communication
  • Spectrum
  • Access to in-vehicle data
  • International cooperation

C-ITS platform (Phase II)

- Continuation of WGs with still open issues for Day 1, e.g. Security, Privacy, Data Protection, Privacy, Compliance Assessment, Interoperability
- A Master Plan for the deployment of interoperable C-ITS in the EU
- C-ITS in Urban areas and Public Transport
- C-ITS and logistics
- Establish links with automation, especially aspects related to physical infrastructure, digital infrastructure, traffic management and road safety

Next Plenary: 25 April 2016
Oettinger Roundtable on connected & automated driving

Commission launched a dialogue between automotive and telecommunication / IT industry to work on fast and secure communication systems to support automated driving.

Objectives:

• to discuss digital aspects of connected & automated driving, such as network coverage, standards, interoperability, cybersecurity, etc.
• to align the roadmaps of automotive and telecommunication industries,
• come up with a proposal for a pan-European, large-scale project that will provide enabling connectivity.
Policy, Competitiveness, Jobs

GEAR 2030

Financing

Oettinger RT

C-ITS Platform

Declaration of Amsterdam

Research, Innovation, Technology advances

STRIA

Connectivity, Data, Cloud Infrastructure

Automation, new mobility

VRA
Beyond EU

• US: NHTSA on “Guidelines for Safe Deployment and Operation of Automated Vehicle Safety Technologies”; Expected mid-2016; Strong discussions ongoing

• Japan: policy proposal for AV testing released by NPA in April 2016; no permission needed as long as it complies with road rules; under consultation until May 7; Tokyo Olympics as a roadshow

• Trilateral cooperation on specific topics: Impact Assessment, Digital Infrastructure, Human Factors, Roadworthiness testing, Accessible Transport, …

• Twinning to be announced

• UNECE, ISO, SAE
Conclusions

• For the first time, a political message was published on deployment of C&AV
• Many Member States are actively supporting its industry to promote research and tests of C&AV
• All EC DGs are contributing C&AV starting from their own competence
• Complete coherent picture is hard to see at the moment
Thank you for your attention…

Any questions?

VRA.info@mail.ertico.com
Maxime Flament, m.flament@mail.ertico.com
ERTICO – ITS EUROPE