GEAR 2030 roadmap on highly automated vehicles

15/06/2016

DG GROW

Automotive and Mobility industries

GEAR 2030

COM Decision of 19 Oct 2015 to set up a High Level Group on the Competitiveness and Sustainable Growth of the Automotive Industry in the European Union

Initiative to re-launch the CARS 2020 process

Objective

- To support the EU cars industry to strengthen its competitiveness and to address the new challenges it is facing in a co-ordinated manner

Task

- Formulate a set of sector-specific policy recommendations and action plans (time horizon 2030) for the following areas:
    - Adaptation of the EU value chain to the new demand trends
    - Roadmap for highly automated vehicles
    - Trade, international harmonisation and global competitiveness

Composition

- Commissioners: Bieńkowska, Bulc, Oettinger, Cañete and Thyssen

- Member States (12): Germany, · Italy, · Romania, · Belgium, · France, · Poland, · Spain, · Netherlands, UK, · Czech Republic, · Slovakia, · Sweden

- Industry (7)
  - ☐ European Tyre&Rubber Manufacturers Association (ETRMA)
  - ☐ European Association of Automotive Suppliers (CLEPA)
  - ☐ Association des Constructeurs Européns d'Automobile (ACEA)
  - ☐ European Council for Motor Trades and Repairs (CECRA)
  - ☐ Association des Constructeurs Européens de Motocycles (ACEM)
  - ☐ Insurance Europe
  - ☐ The Federation of Automotive Aftermarket Distributors (FIGIEFA)

- Representatives of Consumers, Trade Unions, Environmental protection, Road safety, ITC (6)
  - ☐ industriALL (European Trade Union)
  - ☐ European Federation for Transport and Environment (T&E)
  - ☐ Fédération Internationale de l'Automobile (FIA)
  - ☐ European Transport Safety Council (ETSC)
  - ☐ The European Consumer Organisation (BEUC)
  - ☐ European Road Transport Telematics Implementation Coordination Organisation (ERTICO)

GEAR 2030 - Operation

Sherpa Group:

- A permanent preparatory sub-group. This group will consist of representatives of those organisations being members of the HLG.
- Shall prepare the discussions, roadmaps, position papers and advice for actions and policy measures to be recommended by the group

Thematic sub-groups to examine specific questions:

- Adaptation of the EU value chain to the new demand trends
- Roadmap for connected and automated vehicles
- Trade, international harmonisation and global competitiveness

Sherpa Group may invite experts from outside the group to work in the thematic sub-groups

Commission involvement:

- DG GROW (lead), DG MOVE, CNECT, RTD, TRADE, EMPL

4

GEAR 2030 – next steps

13 January 2016	Sherpa meeting discussing future priorities of the group and its organisation of work
26 January 2016	High-Level Group meeting launching the process
February 2016	Working Group: highly automated vehicles
March 2016	Working Group: global competitiveness
April 2016	Working Group: EU value chain
May/June 2016	Meeting of the sub-groups of the WG

Automated, Autonomous, driverless, self-driving connected vehicles, cooperative ITS,etc?

- **What are we talking about?**

- **When will these systems come for testing/consumers?**

- **How do we get there?**

- **Who is empowered to act (EU, national, international level)?**
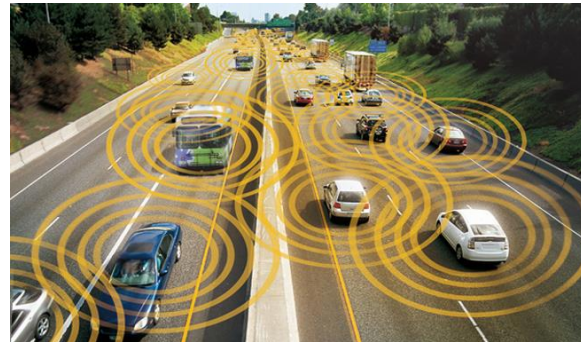
Need for a shared view on automated and connected vehicles

The GEAR 2030 roadmap on highly automated vehicles

1) GEAR 2030: High level group (Commissioners, Ministers, CEOs). Sectorial approach but cross cutting issues.

2) Three pillars for highly automated vehicles:

a) Legal and policy issues.

b) Coordination of research and financing issues. Return on experience

c) Competitiveness/International aspects

8

Legal/policy issues: Specific case of automated vehicles

- **Insurance/Liability/defect issues as the vehicle takes over the driving tasks (EU+national legislation)**

- **Vehicle standards (EU legislation): interaction driver-vehicle (HMI, automated driving strategy, etc.), emergency manoeuvres, cybersecurity, roadworthiness**

- **Driver behaviour and training (EU+national legislation), traffic rules (national + UN legislation), infrastructure (e.g. lane marking),, etc. Ethical issues linked to automation**

- **Data issues (EU+national legislation) more linked to connected vehicles: security, data sharing, privacy, etc.**

Research and financing issues

Different financial instruments: Horizon 2020, projects of common interest, Junker investment plan, many national initiatives(UK, F, Sweden, NL,etc)

- **Focus for Horizon 2020 research program:**

  - **Field operational tests for upcoming systems (level 3): Common criteria, return of experience**

  - **Pilots for Internet of things, higher levels of automation**

Competitiveness/ international cooperation for security

- **Cooperation at international level**

    Work at UNECE level: Discussion of possible guidelines/Standards on security issues (also involving Japan).

    Bilateral cooperation : research and regulatory cooperation with US and Japan

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All the documents discussed in GEAR 2030 are freely available here:

https://circabc.europa.eu/w/browse/5db96d01-27d7-4e0c-b0fa-5b8b90816446