



1ST CORAI SUMMIT ON THE FUTURE OF AUTONOMOUS MOBILITY



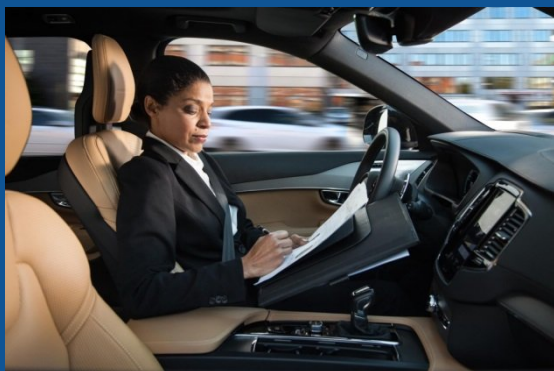
What Can We Expect From The EU?

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Industries*



European
Commission



Connected and automated driving in the EU

**Directorate-General for Internal Market,
Industry, Entrepreneurship and SMEs**
Automotive and Mobility Industries Unit



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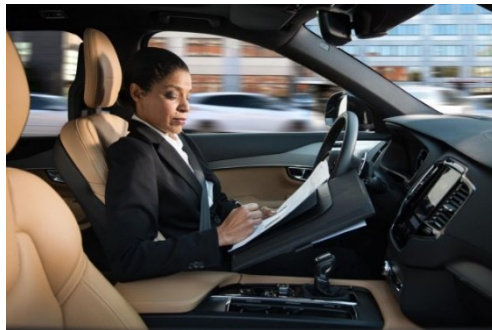
Follow us on:

1. EU CAD policy : EU strategy for automated/connected mobility

- **A common EU vision by 2020 : 3 main use cases**
- **3 main pillars:**
 1. Developing key technologies and infrastructures
 2. Ensuring automated and connected mobility is safe
 3. Addressing societal concerns, in particular jobs, skills and ethical issues

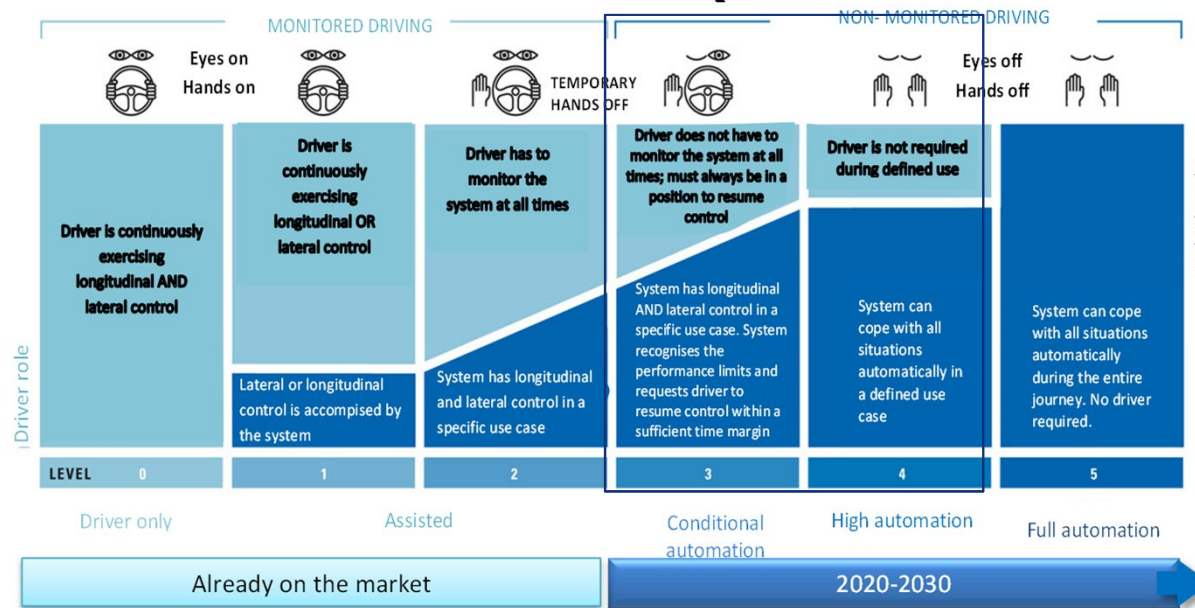
Publicly available :

<https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:52018DC0283>



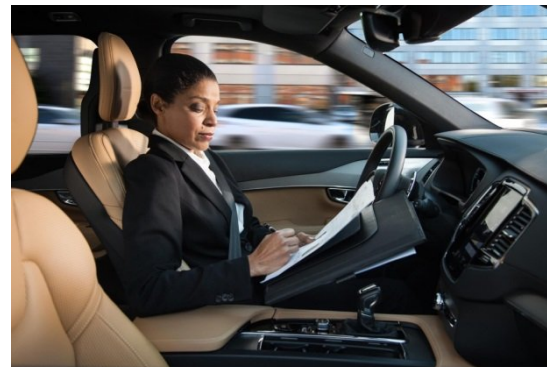
How to regulate automated vehicles?

- **Progressive approach:**
 - EU supporting Large scale Testing
 - EU Guidelines
 - New EU legal framework
 - New assessment method
- **Focus on SAE levels 3-4 (automated vehicles)**



Supporting large scale testing

- **EU roadmap for testing: 3 main use cases**
- **Financial support on large scale testing and infrastructure**
- **New EU platform to coordinate testing accross the EU and the link between research and deployment agenda.**



EU guidelines on automated vehicles

- **Goal: Approval under an EU exemption procedure**
- **Main safety principles:**
 - **1. SYSTEM PERFORMANCE IN THE AUTOMATED DRIVING MODE (Including Duty Of Care Principles)**
 - **2. DRIVER/OPERATOR/PASSENGER INTERACTION**
 - **3. TRANSITION OF THE DRIVING TASKS**
 - **4. MINIMUM RISK MANOEUVRE**
 - **5. INSTALLATION OF EVENT DATA RECORDERS**
 - **6. CYBERSECURITY**
 - **7. SAFETY ASSESMENT AND TESTS**
 - **8. INFORMATION PROVISION TO AUTOMATED VEHICLE USERS**
 - **ANNEX : INFORMATION TO BE PROVIDED FOR TYPE APPROVAL**
- ***Supported by Member States on 12 February 2019***
- ***Publicly available:***
https://ec.europa.eu/growth/content/guidelines-exemption-procedure-eu-approval-automated-vehicles_en

New legal framework: New EU Vehicle safety regulation

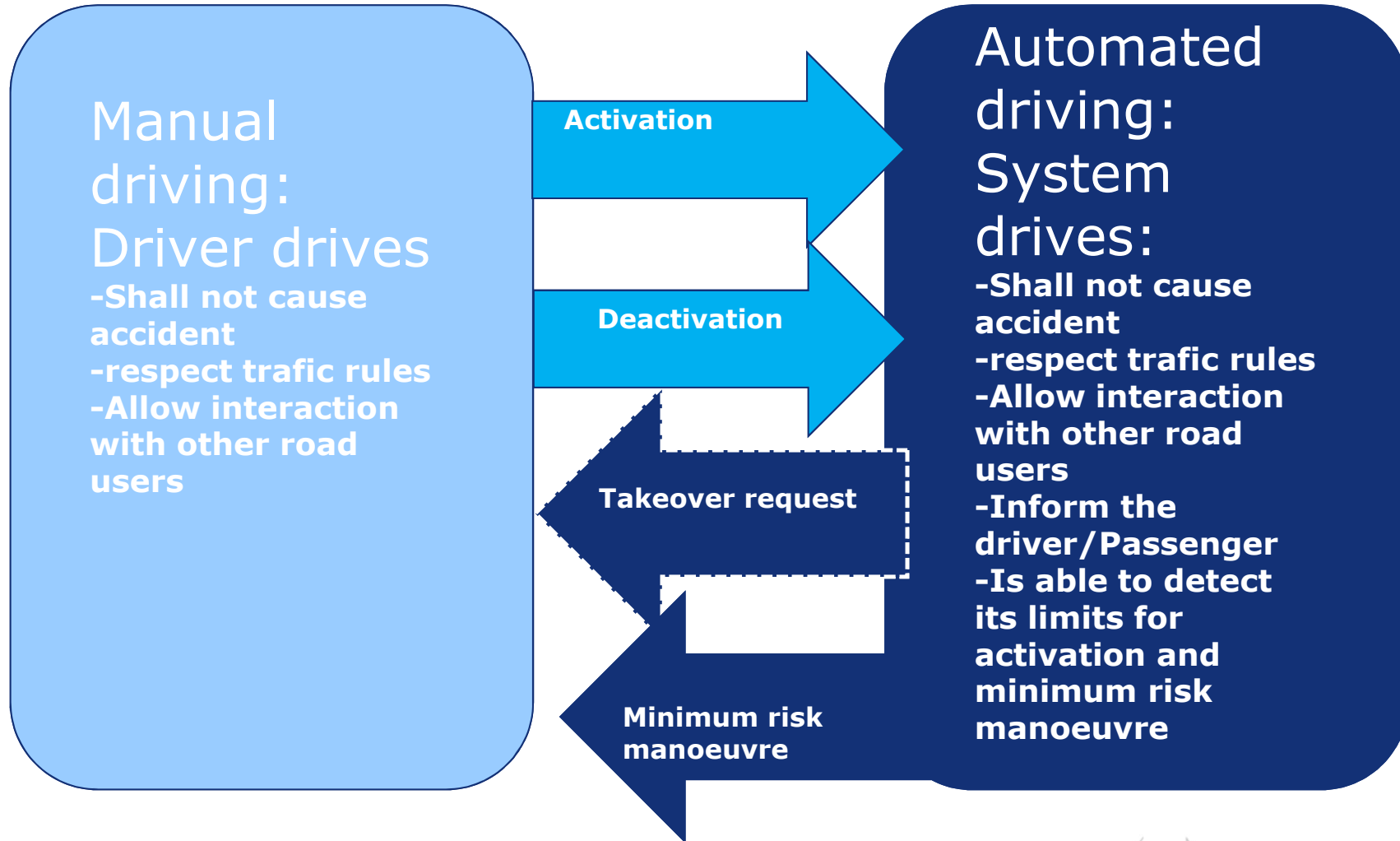
- [Proposed as part of the 3rd Mobility Package](#) on 17 May 2018
- Focus on **driver assistance systems**
- Provide the legal framework for **Connected and Automated Driving**
- Agreed on 26 March 2019.
- **Applicable from mid-2022**
- [http://www.europarl.europa.eu/oeil/popups/ficheprocedure.do?lang=&reference=2018/0145\(COD\)](http://www.europarl.europa.eu/oeil/popups/ficheprocedure.do?lang=&reference=2018/0145(COD))



2. New EU Vehicle safety regulation : Areas of cooperation in UNECE on CAD

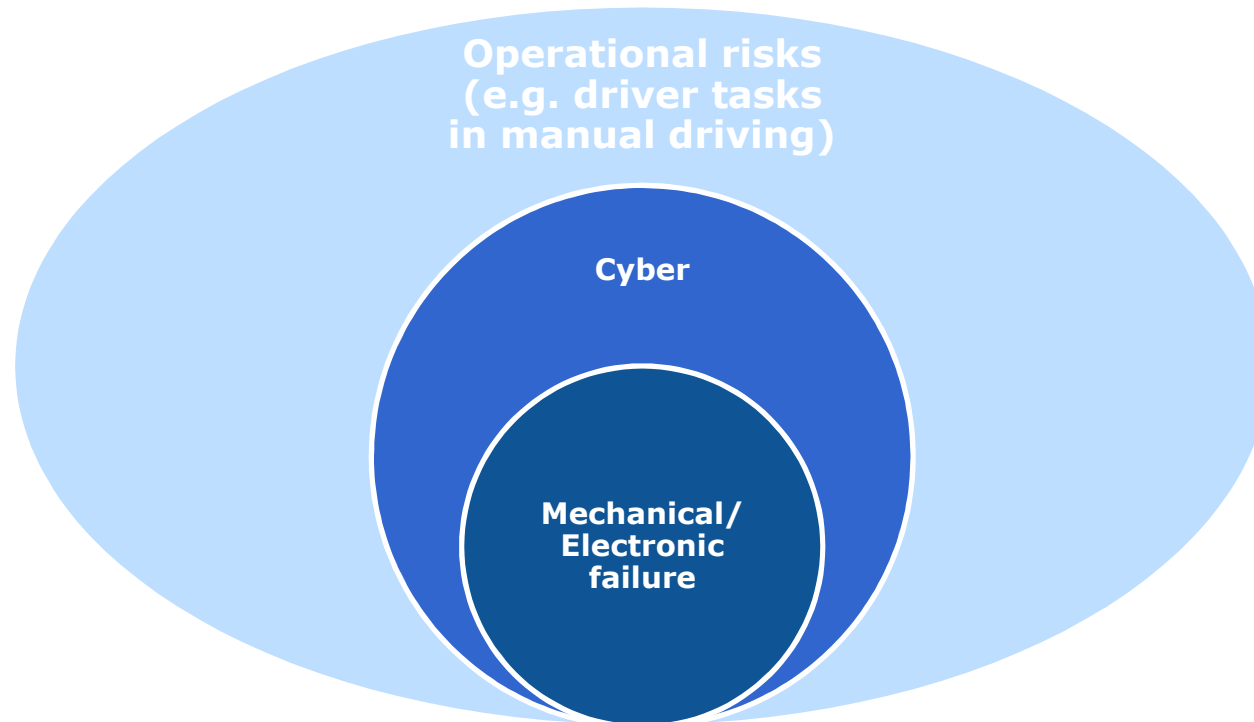
- **New automated/connected vehicles issues:**
perception, longitudinal and lateral control, driver monitoring, EDR, platooning, cybersecurity.
- **Will rely on UN regulations: Discussion on priority topics for CAD on going:**
 - Performance requirements (FRVA)
 - Test methods (VMAD)
 - Cybersecurity/software updates (CS/OTA)
 - Event data recorder/Data storage for AD (EDR/DSSAD)

2. New assessment method



2. New assessment method

- **Generic method based on hazard and risk assessment**
- **Shall cover all the risks: New method and research needed**



- **Start with easier use cases**
- **Need to work at international level**

3. New EU Vehicle safety regulation :Areas of cooperation in UNECE on driver assistance

- **Mandatory Driver assistant systems:**
 - Intelligent speed adaptation
 - Autonomous emergency braking for cars and vans (AEBS)
 - Lane keeping systems for cars and vans
 - Cyclist/pedestrian detection on the front/side of trucks/buses
 - Direct vision for trucks/buses
 - Tyre Pressure Monitoring Systems for trucks/buses
 - Reversing Camera
 - Driver attentiveness
- **Will rely on UN regulations: Discussion on priority topics for CAD on going.**

4. Data: On-going policy activities

- Updating the current type approval legislation for repair/maintenance with wireless connection: On-going consultation on the delegated act.
- Cybersecurity: Consultation stakeholders on the draft UN regulation on cyber security.
- Assessment on whether more is needed for a fair access to vehicle data for other services than repair.
- Assessment on access to data for policy needs (traffic, CO2, type-approval).

European Commission
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Automotive and Mobility Industries Unit

Thanks for your attention

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