UNECE activities on Intelligent transport systems
Content

• Short presentation of the institution

• WP.29’s work so far on automated and connected vehicles

• New structure of WP.29
Content

• Short presentation of the institution:
  • WP.29
  • Cooperation with various stakeholders and SDOs
  • Relevance of WP.29
  • Short overview of UNECE’s activities on ITS

• WP.29’s work so far on automated and connected vehicles

• New structure of WP.29
UNECE hosts the World Forum «WP.29»

- WP.29 is the World Forum for harmonization of Vehicle Harmonization

- It is operating according to the provisions of three multilateral agreements (1958, 97, 98):

- Its stakeholders are:
  - Countries, member States of the United Nations.
  - Accredited NGOs representing:
    - automotive sector,
    - suppliers
    - consumers etc.
WP.29 deals with...

- Emissions of pollutants and CO₂
- General safety
- Passive safety
- Noise
- Tyres
- Active safety
- Automation
- Connectivity
- Lighting and light signalling
- General safety
The scope of WP.29

• WP.29 regulates the performance of «wheeled» vehicles, their sub-systems and parts,
• It has a global reach – Contracting Parties from most continents
Cooperation with various stakeholders and SDOs

- **Lighting and Light Signalling sector:**
  - IEC standards: IEC 60061, IEC 60809
  - Specific UN Regulations on light sources

- **Tyre sector:**
  - ISO, ETRTO, JTMA standards
  - Regulation on tyres
  - Regulation on tyre installation

- **ICT and Telecom sector:**
  - eCall
  - Cyber Security and OTA
Relevance of WP.29

Various institutions and organisations rely on WP.29 and/or commit to work at WP.29 in order to address the safety of conventional vehicles as well as assisted, automated and connected vehicles:

- G7 transport ministers
- The International Conference of Data Protection and Privacy Commissioners
- Global NCAP and other consumer interest groups
UNECE’s work on ITS beyond WP.29

UNECE’s work is not limited to the vehicle and its direct context.

UNECE’s work on ITS also covers:

• Drivers and road safety (WP.1)
• Transport of Dangerous Goods (WP.15)
• Inland Waterways - autonomous ships (SC.3)
• Intermodal transport and logistics (WP.24)
• …
Content

• Short presentation of UNECE/WP.29

• WP.29’s work so far on automated and connected vehicles

• New structure of WP.29
Automated/Autonomous and connected vehicles

• It is a priority for WP.29

• The work started in 2014
  • IWG on ITS/AD
  • GRRF

• Working Party on road traffic safety (WP.1)
  • Works together with WP.29 on the integration of the technology in traffic (legal aspects).
Content

• Short presentation of institution

• WP.29’s work so far on automated and connected vehicles

• New structure of WP.29
  • GRVA
  • IWG on ITS/AD
GRVA

• GRVA is the Working Party on Automated/Autonomous and Connected Vehicles
  • Created in June 2018
  • First session in September 2018
  • Built on GRRF:
    • Focus on Automation and connectivity, while continuing to develop ADAS & safety systems.
    • Taking forward subgroups on:
      • AutoVeh (now called VMAD)
      • Cyber security and OTA
  • First delivery:
    • New UN Regulation on Advanced Emergency Braking Systems (AEB systems) for M1/N1
Informal Group on ITS

The Inland Transport Committee (ITC) recognises that ITS is a key area for the future of an integrated transport system.

The informal group is WP.29’s “eyes and ears” on ITS issues

Has a new mandate that will be formally adopted next week:

- The group will keep the Forum updated with the broader vehicle context
- The group will handle the Working Party’s outreach on ICT, Telecommunication and Infrastructure issues that are potentially impacting its work.

➡️ Please join us!
Thank you

More on www.unece.org/WP.29
IWG on ITS/AD

• IWG on ITS/AD started its activities back in 2014

• Main deliveries:
  • Guidelines on Cybersecurity and data protection
  • Reference document with definitions of Automated Driving under WP.29 and the General Principles
  • Establishment of the TF on Cyber Security and OTA
  • Establishment of the AutoVeh Task Force
  • Brainstorming sessions
  • ...

GRRF

• Working Party on Brakes and Running Gear
  • Group created some decades ago.
  • Achievements:
    • History: Braking, ABS, ESC, Steering by Wire
    • Since 2014
      • Automatically Commanded Steering Functions
        • Removal of the 10 km/h limit in some cases
        • Lane keeping system (ACSF of category B)
        • Lane change assist (ACSF of category C)
        • Remote Control Parking (ACSF of Category A)
      • Corrective Steering Function (clarifications)
      • Emergency Steering Function
WP.1 was the Working Party on Road Traffic Safety

- It amended the 1968 Vienna Convention to explicitly allow in traffic systems which are incompliance with the UN Regulations and UN GTRs

- New membership: Japan and Korea.

- It is renamed the Global Forum for Road Traffic Safety.

- Resolution on the integration in traffic of Automated vehicles.