# UNECE activities on Intelligent transport systems

Short presentation of the institution

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

New structure of WP.29

- 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»

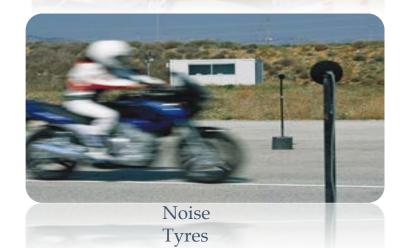
- WP.29 is the World Forum for harmonization of Vehicle Harmonization
- It is operating according to the provisions of three multilateral agreements (1958, 97, 98):
- Its stakeholders are:
  - Countries, member States of the United Nations.
  - Accredited NGOs representing:
    - automotive sector,
    - suppliers
    - consumers etc.



### WP.29 deals with...

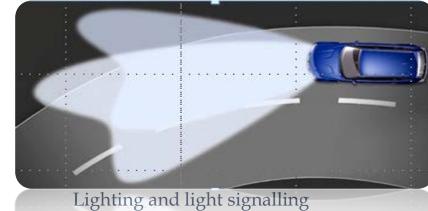


Emissions of pollutants and CO<sub>2</sub>



General safety Active safety Automation Connectivity

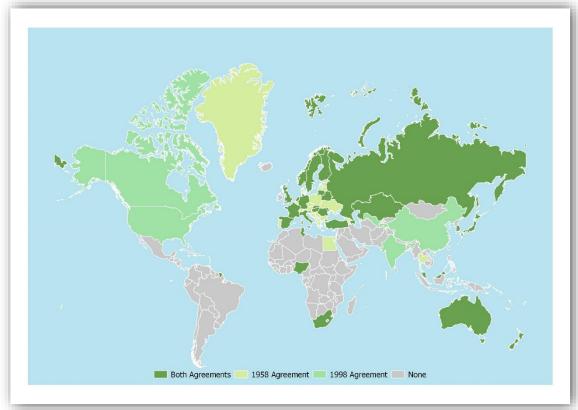




## The scope of WP.29

- WP.29 regulates the performance of «wheeled» vehicles, their subsystems 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





- eCall
- Cyber Security and OTA

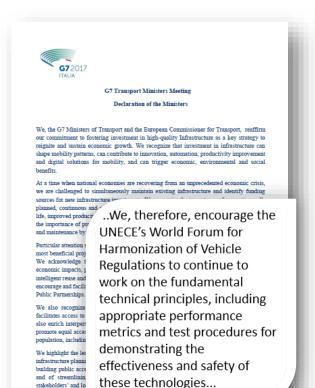




#### Relevance of WP.29

Various institutions and organisation 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







	Road Map for Safer Vehicles 2020 UN Regulations* for:	All New Models Produced or Imported	All Vehicles Produced or Imported
CRASH TESTS	Frontal Impact (No.94) Side Impact (No.95)	2018	2020
SEAT BELTS	Seat Belt & Anchorages (No.16 & 14)	2018	2020
ELECTRONIC STABILITY CONTROL	Electronic Stability Control No.140 (GTR. 8)	2018	2020
PEDESTRIAN SAFETY	Pedestrian Protection No.127 (GTR. 9)	2018	2020
ANTI-LOCK BRAKES	Motorcycle Anti-Lock Brakes No.78 (GTR.3)	2018	2020
AUTONOMOUS EMERIOENCY BRAKINO	Autonomous Emergency Braking Systems	Highly Recommended	Highly Recommended

# 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)

• ...

Short presentation of UNECE/WP.29

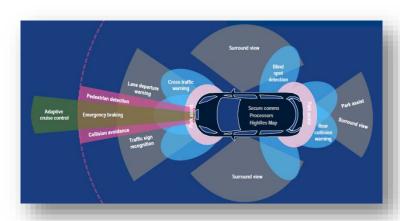
• WP.29's work so far on automated and connected vehicles

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).

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

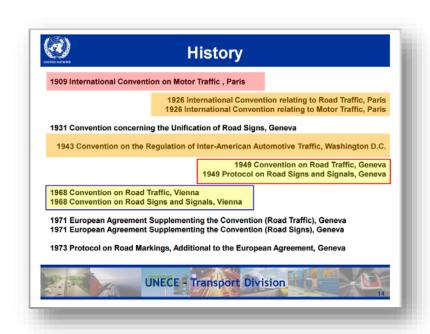
• IWG on ITS/AD started its activities back in 2014

- 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.
  - Achievments:
    - History: Braking, ABS, ESC, Steering by Wire
    - Since 2014
      - Automatically Commanded Steering Functions
        - Removal of the 10 km/h limit in somce cases
        - Lane keeping system (ACSF of category B)
        - Lane change assist (ACSF of cateorgy C)
        - Remote Control Parking (ACSF of Category A)
      - Corrective Steering Function (clarifications)
      - Emergency Steering Function

#### WP.1



- 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.