



INLAND TRANSPORT COMMITTEE



Latest Developments in Vehicle Regulations

Report by the WP.29 Vice-Chair

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Latest Developments in Vehicle Regulations

Vehicle Automation

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- Vehicle automation
 - Restructuring of WP.29 and establishment of the Working Party on Automated/Autonomous and Connected Vehicles, GRVA
 - Framework Document on Automated/Autonomous Vehicles
 - Safety and security of automated vehicles of SAE levels 3 and higher
 - Fosters performance based and technical neutral provisions, not restricting future developments
 - Provisions in agreement neutral way as basis for regulative acts under the three vehicle agreements
 - Safety vision for automated vehicles
 - Common principles (system safety, failsafe response, object detection and response, operational domain, cyber security, software updates or data storage systems)
 - Establishment of four new Informal Working Groups (IWG)
 - Functional requirements for automated vehicles
 - Validation methods for automated driving technologies
 - Data Storage System for Automated driving (DSSAD)
 - Cyber Security and Software updates, including Over-the-Air

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1958 Agreement

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■ Lightning Regulations Simplification

- Twenty-one individual UN Regulations now covered by three new UN Regulations
 - UN Regulation No. 148 on Light Signaling devices
 - UN Regulation No. 149 on Road Illumination Devices
 - UN Regulation No. 150 on Retro-Reflective Devices

■ Advanced Driver Assistant Systems

- New UN Regulation No. 151 (Blind-Spot Information System) for detection of bicycles by heavy duty vehicles
- New UN Regulation No. 152 on Advanced Emergency Braking Systems (M₁/N₁) for active crash avoidance (stationary and moving objects and pedestrian)

■ Update of existing UN Regulations

- 139 amendments to existing UN Regulations adopted to keep pace with technological innovations and introduce more stringent limits for increased safety and environmental performance of vehicles.



Latest Developments in Vehicle Regulations

1997 Agreement

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- Amendments to the 1997 Agreement entered into force
 - Enhanced clarity of provisions
 - Introduction of new definitions
 - Digitalization
 - Possibility for electronic international inspection certificate
 - Enhanced level of quality
 - Introduction of requirements for the conformity of the periodic technical inspection process
- Two new UN Rules annexed to the 1997 Agreement entered into force
 - UN Rule No. 3 on periodic technical inspections of CNG/LPG/LNG powered vehicles
 - UN Rule No. 4 on periodic technical inspections for electric and hybrid-electric vehicles



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1998 Agreement

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- Amendments to Global technical Regulations (UN GTRs)
 - UN GTR No. 2 on Worldwide Motorcycle emission Test Cycle (WMTC)
 - UN GTR No. 15 on Worldwide harmonized Light vehicle Test Procedure (WLTP)
 - UN GTR No. 19 on Evaporate Emission Test for Worldwide harmonized Light Duty Test Procedure (WLTP EVAP)

- New draft UN GTR on the Determination of Electrified Vehicle Power



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Thank you!