



SUSTAINABLE TRANSPORT



## **Latest Developments in Vehicle Regulations**

Item 9(k) Report by the WP.29 Chair

# Latest Developments in Vehicle Regulations

## Vehicle Automation



### ■ 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 endorsed by ITC at its eighty-second session
- New Assessment/Test Method for Automated Driving (NATM) – Master Document
- Draft recommendations for Automotive Cyber Security and Software Update (for non 1958 Agreement CPs).

### ■ Implementation and further development of UN Regulations for automated vehicles

- UN Regulation No. 157 on Automated Lane Keeping Systems – the first application of vehicle automatization of SAE levels 3 (extension of scope for trucks, busses and coaches; proposal for extension of speed to 130 km/h and inclusion of lane-change manoeuvres)
- UN Regulation No. 155 on Cyber Security (series of implementation workshops)
- UN Regulation No. 156 on Over the Air Software Updates

# Latest Developments in Vehicle Regulations

1958 Agreement



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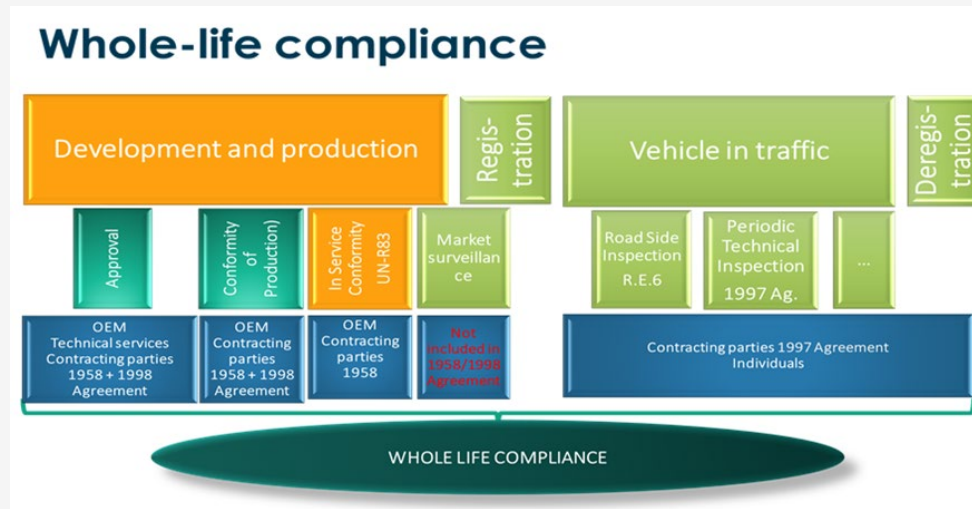
- Two new United Nations vehicle regulations, aimed at improving safety for vulnerable road users entered into force
  - UN Regulation No. 158 on devices for Reversing Motion and motor vehicles with regard to the driver's awareness of vulnerable road users behind vehicles;
  - UN Regulation No. 159 on the Moving Off Information System for the Detection of Pedestrians and Cyclists;
- Four new United Nations vehicle regulations, aimed at improving vehicle safety and security were adopted and entered into force
  - UN Regulation No. 160 on Event Data Storage systems;
  - UN Regulation No. 161 on Devices against Unauthorized Use;
  - UN Regulation No. 162 on Immobilizers and
  - UN Regulation No. 163 on Vehicle Alarm systems.
- Update of existing UN Regulations
  - 134 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.
- WP.29 is grateful to Germany for hosting DETA on an intermediate basis until sustained solutions for the funding of the hosting of DETA at ECE are secured.

# Latest Developments in Vehicle Regulations

1997 Agreement



- WP.29 reviewed the proposed framework document on vehicle whole-life compliance
- Providing for a compliance regime for vehicles from type-approval via periodic technical inspections, roadside technical inspections until its end-of-life and scrapping by applying a holistic approach.



# Latest Developments in Vehicle Regulations

1998 Agreement



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- Amendments to Global technical Regulations (UN GTRs)
  - Global Technical Regulations No. 4 (Test procedure for compression-ignition (C.I.) engines and positive-ignition (P.I.) engines fuelled with natural gas (NG) or liquefied petroleum gas (LPG) with regard to the emission of pollutants (WHDC))
- New Mutual Resolution on Panoramic Sunroof Glazing adopted



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**Thank you!**

Antonio Erario  
WP.29 Chair

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