WP.29 and GRVA activities on Automated Vehicles

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GRVA

• GRVA is the Working Party on Automated/Autonomous and Connected Vehicles
  – Established in June 2018
  – First session in September 2018

• Bureau for 2019:
  – Chair: United Kingdom
  – Vice-chairs: China, Japan

• Develop provisions for:
  – Automation
  – ADAS ([impacting the dynamics of vehicles])
  – Active safety
  – Dynamics of vehicles
  – Connectivity
Priorities defined by WP.29

See ECE/TRANS/WP29/2019/2 (adopted in March 2019)

• Framework document for automated and autonomous vehicles (WP.29)

• Functional requirements (GRVA)

• New assessment test method (GRVA)

• Cyber security and software updates (GRVA)

• DSSAD (GRVA then GRSG)

• EDR (GRSG)
Ongoing activities - highlights

- Vehicle automation:
  - Automated Lane Keeping Systems (Levels 3 [and 4], tbc.)
    - Specific ALKS requirements
    - CEL Annex
    - DSSAD

- ADAS:
  - Automatically Commanded Steering Function (assisted lane change Level 2) – ACSF of Cat. C – 2 step interface

- Active safety:
  - Advanced Emergency Braking (AEB) systems (car, pedestrian, bicycles)
  - Remote controlled maneuvering
  - UN Regulation No. 13 (Discussion regarding EVs and Endurance brake test Type II-A)
    - UN Regulation No. 90

- Cyber security and (OTA) software updates

- Ongoing discussion: structure of the IWGs and their ToRs
Discussion at WP.29 in March 2019

See WP.29-177-19

– Draft proposal for a framework document
  • Working principle
  • AV principles
  • Safety vision
    – “an automated vehicles shall not cause any non-tolerable risk”
  • Key elements

– Further discussion at the June 2019 session of WP.29