



**Asia-Pacific  
Economic Cooperation**

**Advancing  
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# WP.29 & International AV Fora Update

## Virtual APEC Automotive Dialogue 32

28 August 2020

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Presented by  
U.S. Delegation - American Automotive Policy Council

# WP.29 Background



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for

Harmonization of Vehicle Regulations (WP.29)

- Gathers automotive regulators, industry, and other stakeholders from around the world
  - Usually meets in March, June, and November
- Develops regulatory requirements for safety and environmental performance
  - UN Global Technical Regulations (GTR) establish test procedures and performance requirements for use worldwide
  - UN Regulations establish uniform provisions for internationally recognized type approvals of vehicles and components
- GTR and UN Regulations provide basis for national/regional legislation

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# International Agreements under WP.29



- Two main agreements
  - 1958 Agreement: Centered around adoption of UNECE standards and type approval protocols – therefore, it does not include self-certification economies as “Contracting Parties”, nor is China a Contracting Party to the 1958 Agreement.
  - 1998 Agreement: Structured to include more Contracting Parties, including the U.S., EU, China, etc., it establishes a system for adopting automotive standards – by either harmonizing existing standards or developing new ones through GTRs.
- Most economies are Contracting Parties to both agreements.
- 1998 Agreement only economies:
  - North America (self-certification)
  - China, India, Uzbekistan

# WP.29 Permanent Working Parties

(aka GR)



WP.29

GRBP  

GRPE 

GRE 

GRVA 

GRSP 

GRSG 

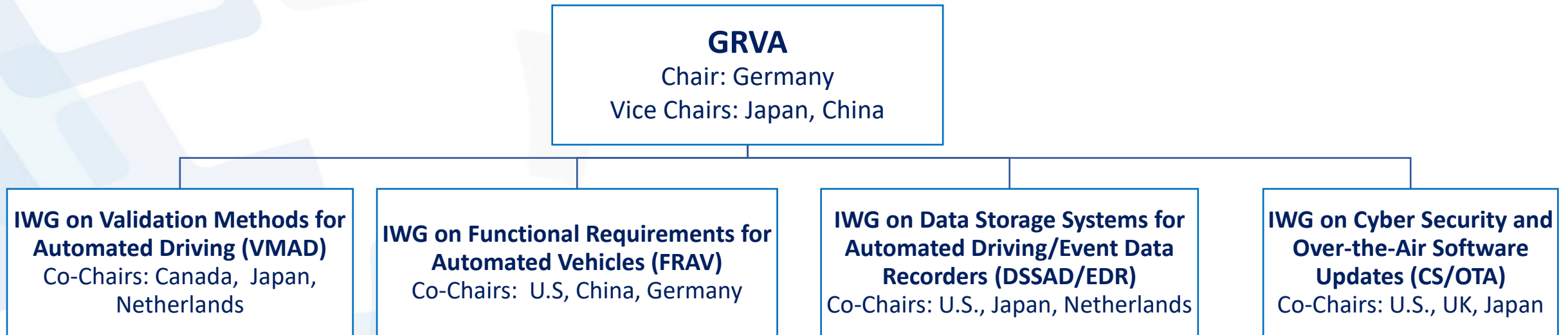
- Working Parties provide technical oversight and expertise for development of regulations
  - GRBP: Noise and Tires
  - GRPE: Engine, Emissions, Energy
  - GRE: Lighting and Light-Signaling
  - GRVA: Automated/Autonomous and Connected Vehicles
  - GRSP: Passive Safety
  - GRSG: General Safety Construction
- WP.29 provides policy oversight and formal decisions
  - Regulatory proposals officially approved or rejected

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# Working Party on Automated/Autonomous and Connected Vehicles



- GRVA oversees steering and braking (vehicle control) issues
- Special mission to address vehicle automation safety
- Internal working groups(IWGs) formed by experts to address challenges of automated driving regulation



# WP.29: Recent AV Actions



- COVID-related public health and travel restrictions have led to limited remote sessions over the past 6 months
- June WP.29 session saw adoption of three AV-related regulations
  - UN R155 on type approval of vehicles with regard to cybersecurity and cybersecurity management systems
  - UN R156 on type approval of vehicles with regard to software updates and software update management systems
  - UN R157 on type approval of vehicles with regard to automated lane-keeping systems (ALKS)
- UN R155 and R156 extend type approval to lifetime management of cybersecurity and software
- UN R157 concerns SAE Level 3/4 on-highway ALKS operating at speeds up to 60 km/h (e.g., traffic jam pilot)

# WP.29: Coming through the Pipeline



- New GTR on crash event data recorders (EDR) in November
  - Updated version of NHTSA Part 563 modified for global use
  - Longer-term phase 2 expansion to consider data from non-airbag systems (e.g., ADAS, pedestrian protection systems)
- Proposal to expand UN R157 (ALKS) to 130 km/h
- Data Storage Systems for Automated Driving (2021)
  - Address user interactions with ADS and product liability issues
- New Assessment/Test Method (NATM)
  - Substantially new approach to ADS safety assessments
  - Architecture for methods and requirements expected March 2021

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**Thank you!**