VMAD

Subgroup 4: Test track-/ Real world testing

VMAD Webex meeting 18/19 May 2021



SG 4's meeting 22 April 2021 (1)

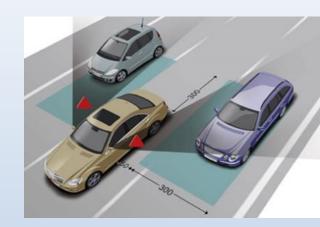


- Approval SG 4's draft workplan;
- Steps to be taken:
 - 1. Identification best practices TT and RWT (by May 2021; VMAD-18)
 - 2. Identification of:
 - Supporting components to be developed by other groups (i.e. scenarios by SG 1; Functional requirements FRAV);
 - Outline / considerations when describing procedures for TT and RWT.
 - Missing elements



SG 4's meeting 22 April 2021 (2)

- First draft of step 2 by July 2021 (VMAD-19)
- Final draft by September 2021 (VMAD-20)





SG 4's meeting 22 April 2021 (3)

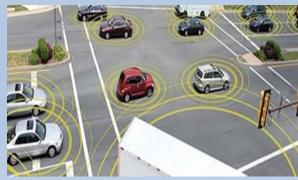
- Finally; step 3:
 - Identify how TT and RWT could be used for validation functional requirements FRAV
 - Determination levels of abstraction scenarios for TT and RWT
 - With SG 1: identification scenario elements ODD for reproduction in test procedures and how to measure
 - Identification information / data that can provide clear, objective assessment of ADS performance
- Timeframe step 3: following September 2021 (VMAD-20)



Delivery Step 1...

- Document step 1 delivered as a first concept: VMAD-SG4-06-05
- Overview Available Best Practices, Procedures, Technical Resources & Tools (for TT and RWT)
- Input several parties delivered; will be elaborated in next version
- Confirmation and approval in next SG 4 (June 2021)
- Delivery to VMAD (July 2021, as part of documentation on Step 2)





Document best practices (1)

Containing (for TT):

- Regulations and standards for Automated Driving systems and ADAS: UN, ISO regulations:
 - New Car Assessment Programmes (NCAP's) Protocols: EuroNCAP, a.o.
 - Academic literature

Containing (for RWT):

- Regulations and standards for Automated Driving Systems (ADS)
 - UN regulation 157 (specifications ALKS)



Document best practices (2)

Containing (for RWT):

- Regulations and standards for testing vehicles on public roads
 - Real-Driving emissions (RDE) Test procedure
- Guidance for Automated Driving Systems (ADS)
 - Safety assessment for Automated Driving Systems (in Canada)
- Regulations, Standards and Guidance on Automated Vehicles Trials on Public Roads
 - L3 Pilot Deliverable D3.4 Evaluation Plan
 - Uk's Code of Practice: Automated vehicle trialling
 - FESTA Handbook
 - a.o.





Document best practices (3)

Containing (for RWT):

Academic Literature

- Overview of Available Technical Resources and Tools
 - None defined yet

- Appendix:
 - Consumer Protection Tests in EURO NCAP



