**Invitation to the 21st Session of the GRVA Informal Working Group on**

**Functional Requirements for Automated Vehicles (FRAV)**

The 21st session of the FRAV informal group is scheduled for 17-18 November 2021 between 12:45 and 15:15 CET each day via web conference. Further details will be posted as available on the [FRAV wiki page for the session](https://wiki.unece.org/display/trans/FRAV%2B21st%2Bsession). Participants can [connect to this session via this link](https://teams.microsoft.com/l/meetup-join/19%3Ameeting_OGM1MmRjNmQtZjU0ZS00NTU1LTk3MmMtZWU4MGMzYTM3MzYy%40thread.v2/0?context=%7b%22Tid%22%3a%22530759f1-0bc8-4803-a1e7-f947e16dce91%22%2c%22Oid%22%3a%22c3572ec0-3b7a-4fb7-a4df-c707f9396d25%22%7d).

Session Objectives

During our last session, FRAV reviewed the status of the ADS requirements and data collection workstreams. FRAV also received a request from SG1 (per a joint decision of the FRAV-VMAD leaderships) to review three basic scenarios and indicate which general requirements would apply.

Since then, the EDR/DSSAD informal group has reviewed the FRAV recommendations for ADS data collection. EDR/DSSAD has asked FRAV to provide examples of data elements and their categorization under the recommended framework. EDR/DSSAD is particularly interested in data elements relevant to motorway automated lane-keeping systems (ALKS). The EDR subgroup is specifically working on ADS-relevant amendments for UN R160 on the type-approval of event data recorders.

Therefore, the 21st FRAV session plans to address the following topics:

* Updates from the ADS requirements workstreams to the consolidated worktable
	+ Discussion in particular of HMI and ADS user general requirements
	+ Impact of the workstream activities on the evolution of Document 5 as the basis for FRAV’s submission to GRVA next January
	+ FRAV guidance on objectives for the December session (expectations for workstream deliverables to FRAV)
* Review of VMAD SG1 scenarios
	+ Discussion of general requirements relevant to ADS navigation of each scenario as presented (i.e., generic level without reference to unspecified elements)
	+ Consideration of ODD conditions relevant to ADS navigation of each scenario
	+ Consideration of other elements relevant to ADS navigation of the scenario (e.g., behavior of the adjacent vehicle in the cut-in scenario)
	+ FRAV feedback to SG1
* Update from the ADS data collection workstream
	+ Discussion in particular of ALKS-relevant data elements and their treatment under the FRAV framework
	+ Consideration of EDR (on-board data for crash analysis) and In-Service Monitoring and Reporting (manufacturer uploading and processing of data for reporting on ADS performance metrics)
	+ FRAV guidance towards responding to the EDR/DSSAD request (with particular attention to the EDR priority for introducing ADS elements into UN R160)