

20th Session Status Review and Session Orientation

Web Conference

14 October 2021



Adoption of the agenda

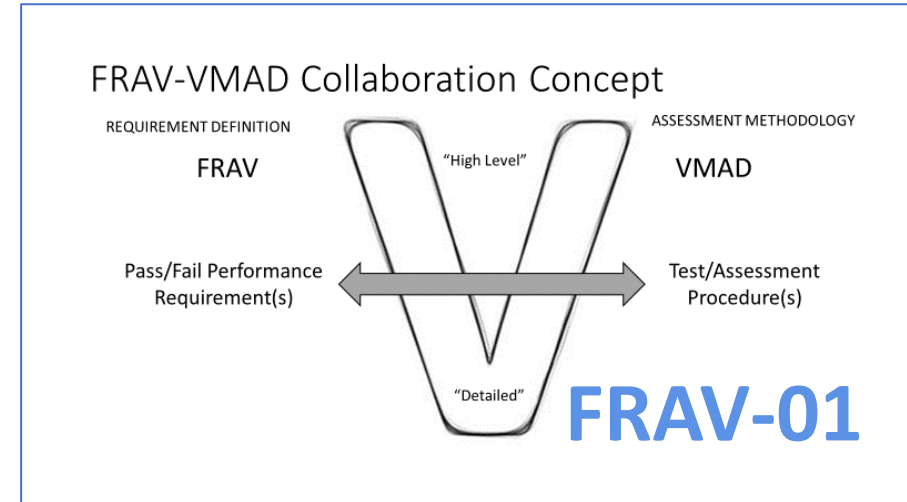
Agenda item	Documentation
1. Adoption of the agenda	12:45-12:50 FRAV-20-01
2. FRAV status review	12:50-13:00 FRAV-20-03
3. Status of consolidated worksheet	13:00-13:15
4. DDT workstream update	13:15-13:30
5. ADS users workstream update	13:30-13:50
6. ORU workstream update	13:50-14:20 FRAV-20-06
7. ADS data collection workstream update	14:20-14:30
8. FRAV status and next steps 8.1. FRAV-VMAD collaboration and integration 8.2. SG1 scenarios and FRAV requirements 8.3. Next sessions: 17-18 Nov, 15-15 December, 13-14 January 8.4. Any other business	14:30-15:15

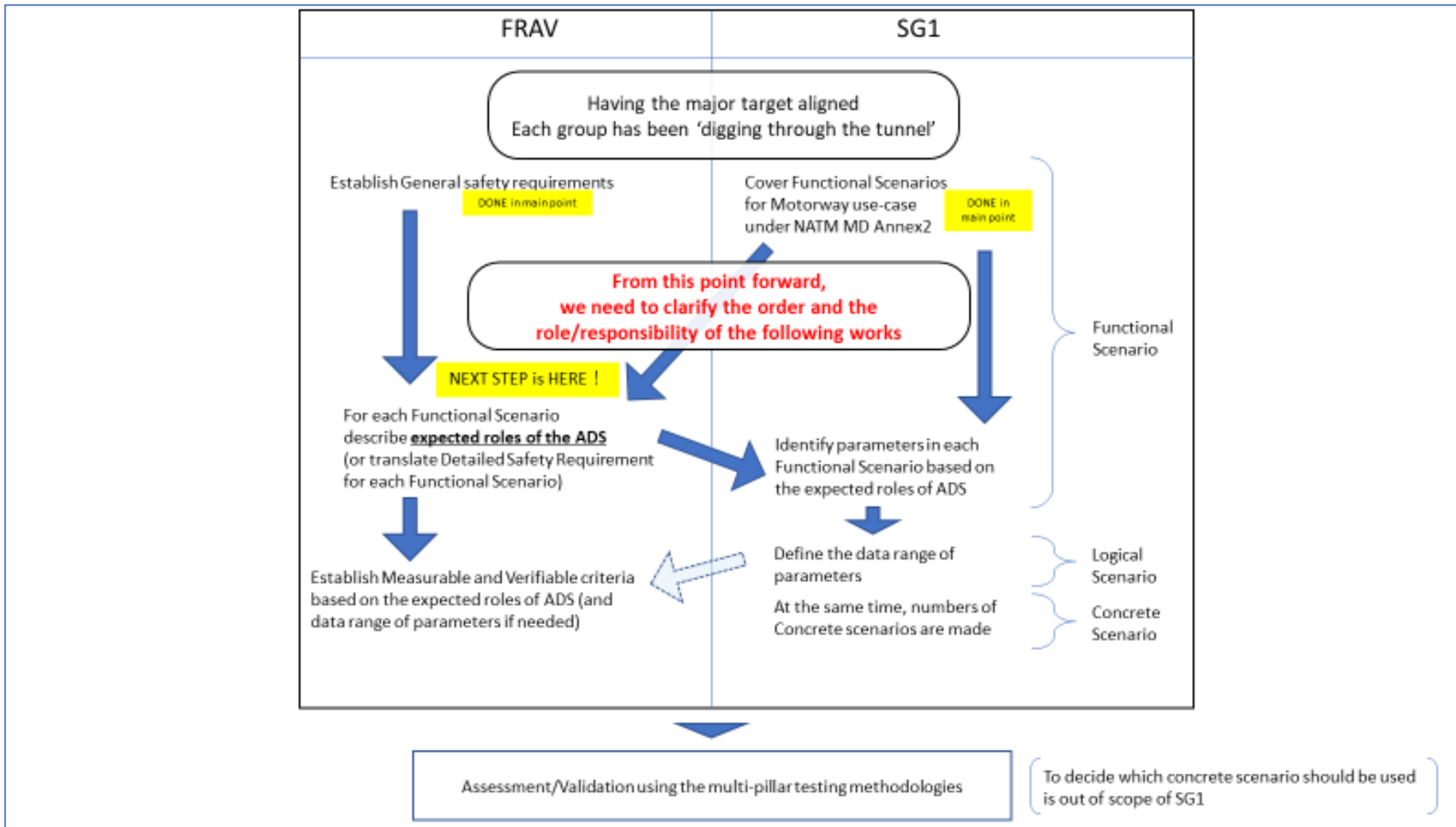
- GRVA-11-24 (Reproduction of FRAV-19-05)
 - Opted for discussed Document 5 (D5) version rather than revision not seen by FRAV
- GRVA-11-25 (Status report presentation)
 - Reviewed starting points and workstreams to develop requirements
 - Explained two steps (general description then technical specifications)
 - Noted D5 structure
 - Terms and definitions, manufacturer ADS descriptions, ADS safety requirements per configurations
 - Summarized “roles approach” to user safety and “properties approach” to ORU safety
 - Explained GRVA-11-24 as consolidation of interim FRAV working papers
 - Highlighted comments received on FRAV-19-05 and stressed ongoing revision
 - Summarized data collection input to EDR/DSSAD
 - Set expectations
 - Build out general ADS safety requirements
 - VMAD collaboration to align ADS descriptions and safety requirements with assessment scenarios (e.g., ODD, nominal v. safety-critical)
 - Input for EDR/DSSAD and VMAD on data collection

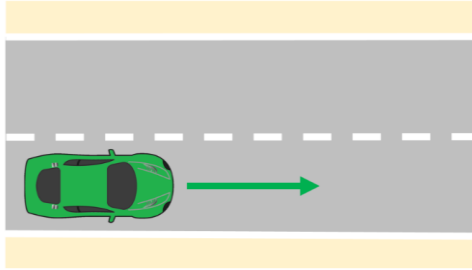
- FRAV-19-05 referred to workstreams for consideration
 - New D5 version will be needed for GRVA-12 (moved from February to 24-28 January)
 - GRVA plan for informal consideration of FRAV/VMAD output in January, formal consideration in May with submission to WP.29 for June session
 - Evolution of workstream output in this direction desired
 - Aim to consider D5-aligned output during 14-15 December FRAV session
 - Enable endorsement of GRVA submission during 13-14 January FRAV session
- Current focus of workstreams
 - CLEPA expert (M. Oldoni) managing consolidation of requirements output
 - Today: Discuss workstream status and provide guidance
 - Reminder: DDT-M. Oldoni, ADS user safety-Rino Brouwer, ORU safety-Yu Yanhui
 - Updated worktable(s) for 17-18 November FRAV session
 - Attention to terms and definitions, impact of requirements on ADS descriptions (align with D5 needs)
 - Attention to form and precise language (e.g., use of terminology, “may/shall”)
 - Input for EDR/DSSAD and VMAD SG3 (in-service monitoring)
 - AAPC/SAE/EDR/DSSAD expert (J. Bielenda) managing consolidation of input

3. Consolidated requirements worktable
4. DDT performance workstream
5. ADS user safety workstream
6. ORU safety workstream (FRAV-20-06)
7. ADS data collection workstream

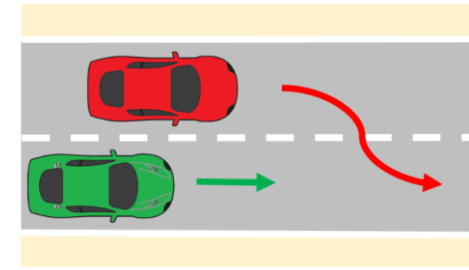
- VMAD collaboration
 - SG1 (Scenarios)
 - Attribute safety requirements to traffic scenarios
 - Ensure requirements cover scenarios and vice versa as needed
 - Align outputs to facilitate application of technical specifications to logical layer scenarios
 - SG3 (Audit/In-Service Monitoring and Reporting)
 - ADS descriptions and Audit documentation consistency/integration
 - ADS data collection and application to in-service monitoring
 - SG4 (Track and Real-World Testing)
 - Application of nominal ADS DDT performance and ADS response to safety-critical events requirements to track and real-world test procedures
- FRAV and VMAD products consistency/integration
 - OICA/CLEPA: ODD framework approach



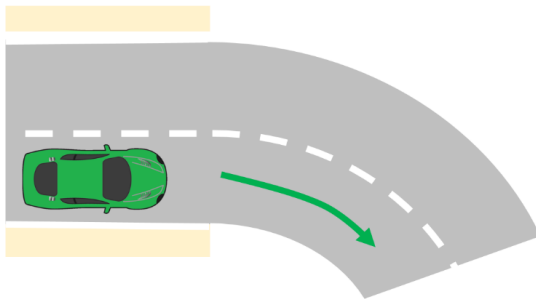




The ADS feature is moving the vehicle within a straight unobstructed lane of travel.



The ADS feature is moving the vehicle within a straight unobstructed lane of travel with a vehicle moving alongside in an adjacent lane. The adjacent vehicle moves into the path of the ADS vehicle's lane of travel.



The ADS feature is moving the vehicle within a lane of travel along an unobstructed curve.

Which requirements would ensure safe ADS navigation of these scenarios? Secondary consideration: What variables might impact ADS performance or response(s)?

FRAV Calendar

Session 21: 17-18 November

Session 22: 15-16 December

Session 23: 13-14 January

(Physical session same week as VMAD...?)

Session 24: 1 February

- November
 - Updated worktable(s) (“proto-D5”)
 - SG1 scenarios exchange
 - data collection exchange
- December
 - D5-aligned updated worktables (“draft D5”)
 - SG1 scenarios exchange
 - SG3 documentation/ISMR exchange
 - SG4 nominal/safety-critical v. track/real-world testing exchange
- January
 - Endorsement of new D5 for GRVA
 - SG1 scenarios consistency
 - SG3 documentation/ISMR consistency
 - SG4 nominal/safety-critical v. track/real-world testing consistency