

# 21<sup>st</sup> Session Status Review and Session Orientation

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Web Conference

17-18 November 2021




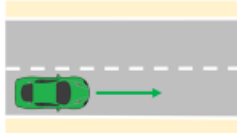
# Adoption of the agenda

Agenda item	Documentation
1. Adoption of the agenda Day 1: 12:45-12:50	FRAV-21-01
2. FRAV status review Day 1: 12:50-13:00	FRAV-21-03
3. Status of ADS requirements development Day 1: 13:00-14:45	FRAV-21-06
3.1. DDT workstream	
3.2. ADS users workstream	
3.3. Other road users workstream	
3.4. ADS framework (Document 5) integration	
4. ADS requirements and VMAD SG1 scenarios Day 1: 14:45-15:15	FRAV-17-09 (ORU stream)
4.1. Unobstructed straight lane Day 2: 12:45-13:45	
4.2. Unobstructed curve	
4.3. Adjacent vehicle cut-in	
4.4. Feedback to SG1	
5. ADS data collection workstream Day 2: 13:45-14:30	
5.1. EDR/DSSAD feedback	
5.2. Sample data elements and allocation	
5.3. Feedback to EDR/DSSAD	
6. FRAV status and next steps Day 2: 14:30-15:15	
6.1. Revised Document 5 for December session	
6.2. FRAV-VMAD collaboration and integration	
6.3. Response to EDR/DSSAD	
6.4. Expectations for GRVA January submission(s)	
6.5. Next sessions: 15-16 December, 13-14 January	
6.6. Any other business	

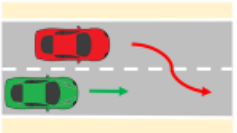
- Development of ADS safety requirements
  - FRAV-23-05: Consensus document for submission to GRVA-12
    - FRAV-22-05: Draft document integrating consensus from workstreams
  - Document 5 contents
    - Terms and definitions
    - Guidelines for manufacturer descriptions of the ADS, its features, intended uses, and limitations on use
    - ADS safety requirements
      - ADS DDT performance
      - ADS performance under safety-critical scenarios
      - ADS HMI and user safety requirements
      - ADS failure mode management
      - ADS operational safety over vehicle lifetime
  - Alignment with VMAD scenarios and assessment methods
- ADS data collection input to EDR/DSSAD

- DDT workstream
- ADS users workstream
- ORU workstream
- Integration into revised Document 5
- Alignment with VMAD scenarios
  - Consideration of initial three scenarios
  - Coverage of all motorway scenarios
  - Application of scenarios to VMAD assessment methods

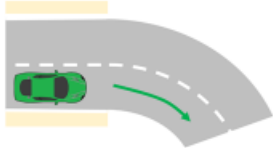
Scenario samples




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)?**

Document FRAV-20-03  
20<sup>th</sup> FRAV session, 14 October 2021  
Slide 8

- Two main uses of data
  - Crash reconstruction and analysis under legal frameworks for EDR
  - Performance monitoring and reporting under legal framework to be determined
    - Manufacturer data collection and processing
- EDR/DSSAD request for examples
  - Data elements and their categorization
  - FRAV framework
    - EDR-specific data, ISMR data, and “dual use” data elements
    - Differentiation of ADS configurations and relevant data (especially link to HMI aspects)
    - Alignment with FRAV framework and requirements: terms and definitions, ADS configurations, ADS requirements (e.g., ADS “states and actions”).

## FRAV Calendar

Session 22: 15-16 December

Session 23: 13-14 January  
(Physical session same week as VMAD...?)

Session 24: 1 February

- 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