

# Further Development of OpenSCENARIO

Results<sup>\*)</sup> of pre-standardization meetings with industry-experts:

## Features

- F001: Maneuver Model
- F002: Driver Model
- F003: Traffic Model
- F004: Weather Model
- F005: Environmental Event Model
- F006: Vehicle Dynamics
- F007: Parameter Stochastics
- F008: High-Level Maneuver Descriptions
- F009: Replay of Recorded Scenarios
- F010: Automatic Parameter Calculation

## Other Topics

- Checker Tool
- Parser
- Data Access API
- Test Specifications
- Tool Qualification
- Traffic Simulation Driver Reference Models and Implementations

## Requirements

- R001: Avoid multiple ways of defining the same maneuver
- R002: Define elements as 'mandatory' only when absolutely needed
- R003: Maintain independence of standards and open linking between standards
- R004: Define three levels of control for ego vehicles
- R005: Allow tool-vendor specific extensions
- R006: Allow definition of feature subsets
- R007: Define simulation results reproducibility
- R008: Maneuver descriptions shall be suitable for open-loop and closed-loop simulation.
- R009: Define parameter boundaries
- R010: Synchronize maneuvers
- R011: Allow the definition of success criteria for maneuvers
- R012: The description format shall be suitable for manual scenario creation in text editors

<sup>\*)</sup> tentative, as meetings are on-going

# ASAM OpenSCENARIO Roadmap

