OpenSCENARIO: bringing content to the road

Motivation

- ADAS functionality requires extensive testing in various environments
- Feature sets of various tools are highly different
- Each tool is well suited for its specific purpose
- Migrating scenarios from one tool to another one requires high effort
- Independent 3rd parties (e.g., authorities) are not able to provide scenario definitions in a format compatible with multiple tools

Goal

The goal of OpenSCENARIO is to establish a software-independent format of describing dynamic scenarios for virtual driving tests.

Applications

- Advanced driver assistance systems
- Handover strategy (partial autonomous driving)
- Driving dynamics
- Human Machine Interface (HMI)
- Parameter interpretations
- Test of sensors and algorithms
- Car2Car / Car2X communication
- Light simulation (headlight system, head-up-displays)

Basic Layout

Definition Phase, Stage 1

Definition Phase, Stage 2

Maintenance Phase

Started in 2015 by

DAIMLER
PORSHE

From simulations to movement

Green CAE

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