ASAM Regional Meeting South Korea 2023

Welcome – day 2

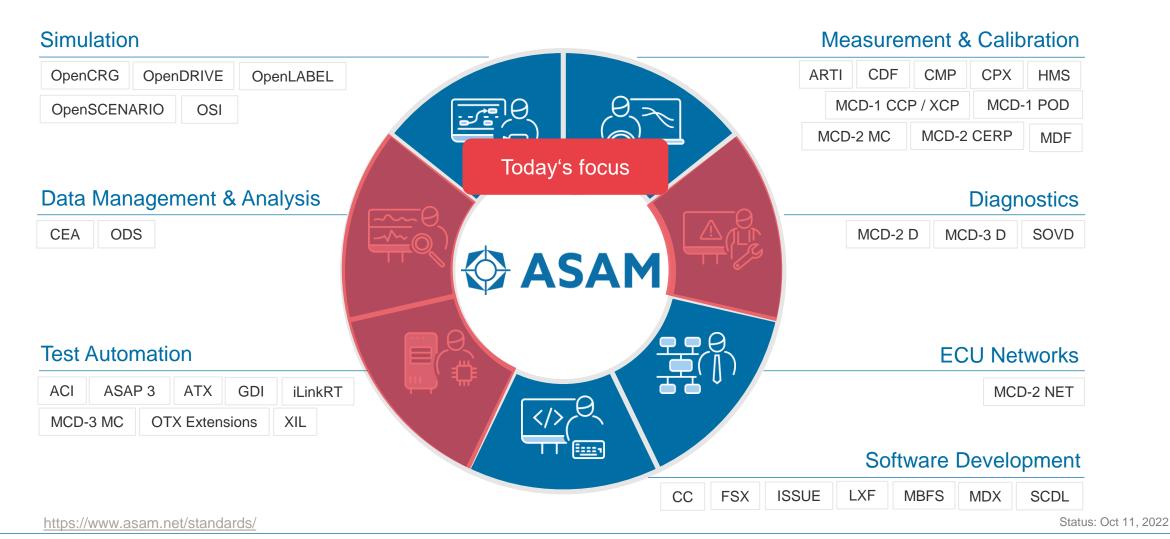
Dr. René GroßpietschBoard of Directors, ASAM e.V.

September 13th, 2023 **Jeju**, **KR**



ASAM standards portfolio

ASAM is currently active in 7 domains



ASAM e.V. standards shape the industry

A selection of widely spread and internationally implemented standards

ASAM MCD-2 MC (fka ASAP2, since 1999)

Description format of the internal ECU variables used in measurement and calibration.

ASAM MDF (since 2009 under ASAM)

Write data from data acquisition system

ASAM ODS (since 2000 under ASAM)

Store and retrieve measured data

ASAM OTX Extensions (since 2015)

Language and exchange format for the specification of executable test sequences

ASAM MCD-1 XCP (since 2003)

A bus-independent communication protocol to connect ECUs with calibration systems

ASAM XIL (since 2009)

An API for the communication between test automation tools and test benches

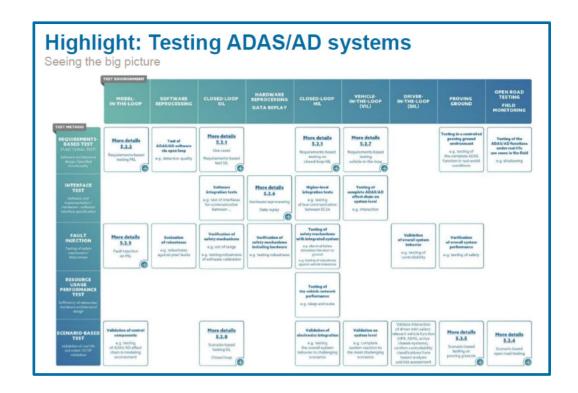




The future

Our way forward

- Working Group of ASAM OpenTestSpecification as a consolidation effort for use-cases and standards across the domains, for example
 - ASAM OpenLabel/OpenScenario and ASAM ODS
 - ASAM MDF and ADAS raw data
- Multi-modal mobility with an emphasis on simulation
 - Environment models
 - Data formats for sensors
 - Domains outside automotive
 - Offroad
 - Railroad
 - Motorbikes
 - · Mobility networks and infrastructure
 - Focus on "SDV and data pools"





Software-defined vehicle & diagnostics

Session introduction



The software-defined vehicle

From buzzword to reality

Characteristics

- Decoupling software from hardware
- Evolving functionality (onboard and offboard)
- Over-the-air updates
- New consumer expectations (car = smartphone on wheels)

Challenges

- Mixed understanding of SDV concepts
- Massive data generation and high-bandwidth data transfer
- Shifting integration and abstraction layers (OS vs. middleware vs. application)
- Heterogenous layouts
- Robustness of functions
- Cyber security
- New regulatory requirements
- Continuous homologation
- Value shift: More importance on software while hardware likely to become commodity

ASAM's answer

- Support of virtual homologation
- REST-based vehicle diagnostics (ASAM SOVD)
- From diagnostics concepts to communication concepts
- Partnerships with relevant organizations (e.g., AUTOSAR)



Thank you for your attention.

Dr. René Großpietsch Board of Directors ASAM e.V.

email: rene.grosspietsch@asam.net



