

Quantifying Simulation Quality

From synthetic to real, from academia to industry

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Sep 10-11, 2024
Düsseldorf, Germany



Hochschule Düsseldorf
University of Applied Sciences

HSD



Association for Standardization of
Automation and Measuring Systems

ASAM in a nutshell

Marius Dupuis

ASAM in a nutshell

VISION

Accelerate engineering for mobility.

PRODUCTS

We create standards on implementation level for the entire lifecycle of mobility systems.

IMPACT

We facilitate competitive markets and drive innovation by enabling collaboration and cooperation between all stakeholders.

Standards

38

Founded

1998

Members

400+



DNA

We are a global not-for-profit association of mobility industry parties. **ASAM is what its members are.**

WORK MODEL

Our products are initiated and developed by our members to the benefit of the entire industry. We deliver with short time to market to a strong user base.

PROMISE

We leverage your ideas for standardization.

ASAM in a nutshell

25+ YEARS

- **ASAM MCD-2 MC**
ECU variables in measurement and calibration
- **ASAM MDF**
Write data from a data acquisition system
- **ASAM ODS**
Store and retrieve measured data
- **ASAM OTX**
Specify executable test sequences
- **ASAM MCD-1 XCP**
Connect ECUs with calibration systems
- **ASAM XIL**
Connect test automation tools and test benches
- **ASAM OpenX-series**
Simulation-based development and testing
- and many more ...

INDUSTRY TRENDS

- Automation, on- and off-road
- Software-defined vehicles
- Intermodal mobility

CHALLENGES

- Over-the-air updates
- Increasing complexity of V&V
- Test coverage
- Consistent application of standards and methods

SOLUTIONS

Standards, e.g.
ASAM SOVD
ASAM OpenSCENARIO

Projects, e.g.
ASAM OpenTestSpecification

Tools, e.g.
ASAM Quality Checker Framework

Local work groups, e.g.
OEM committee (Japan)
ACADS (China)

LinkedIn



WeChat



Website



Newsletter

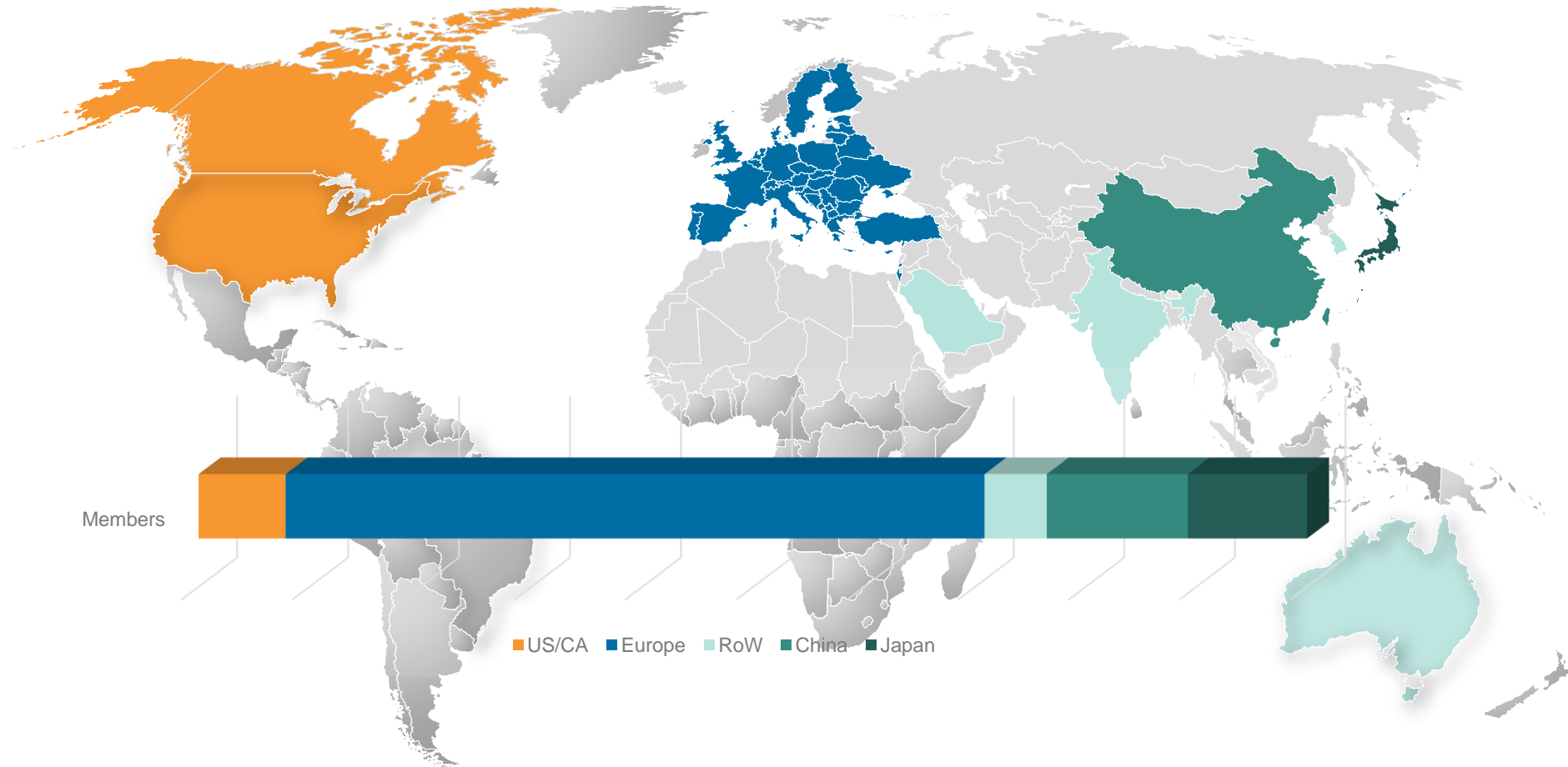


POSITIONING

ASAM focuses on the implementation level in the global mobility industry. We align and cooperate with other organizations (e.g., SAE, ISO, IEEE).

ASAM – a truly international association

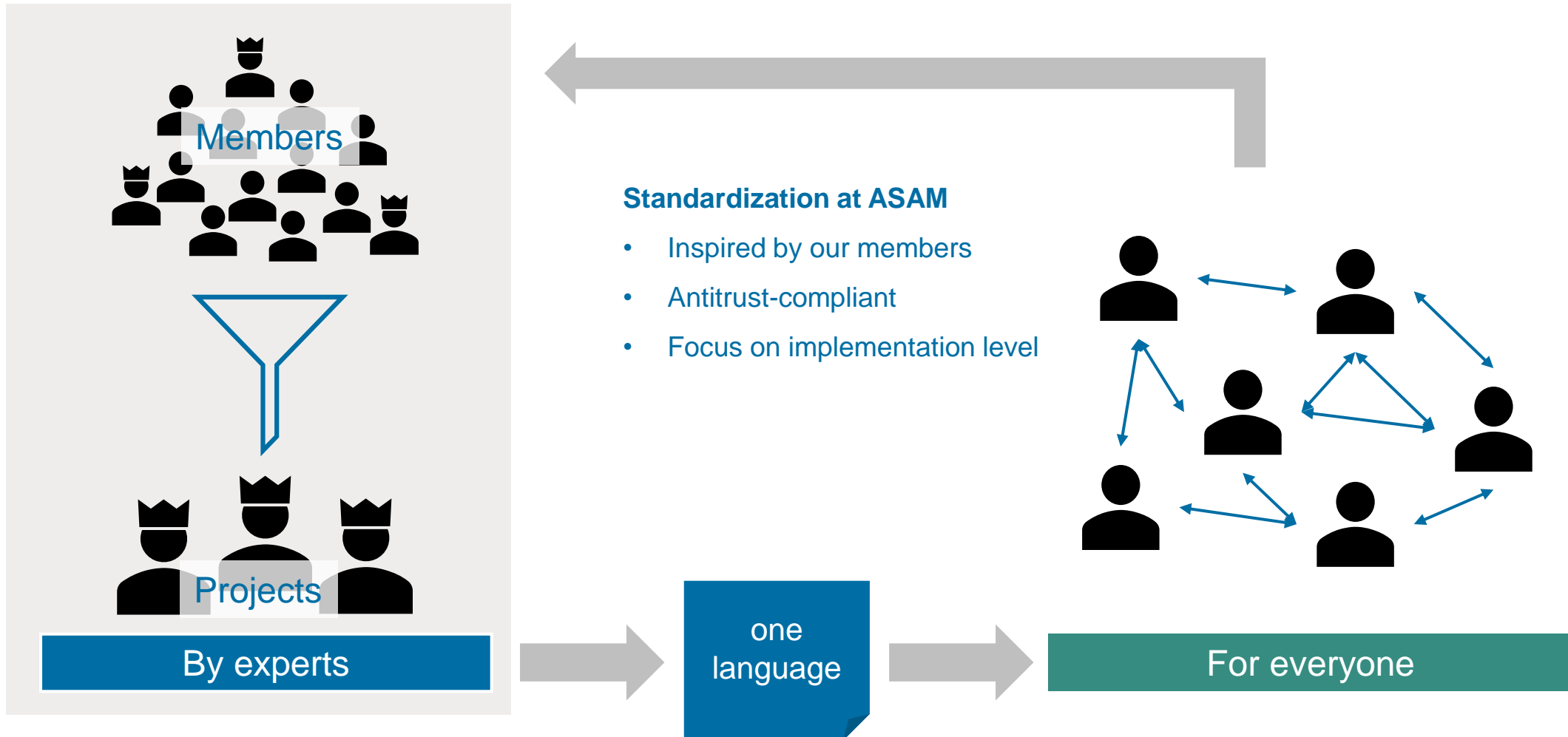
Global distributions of members



Status: May 01, 2024

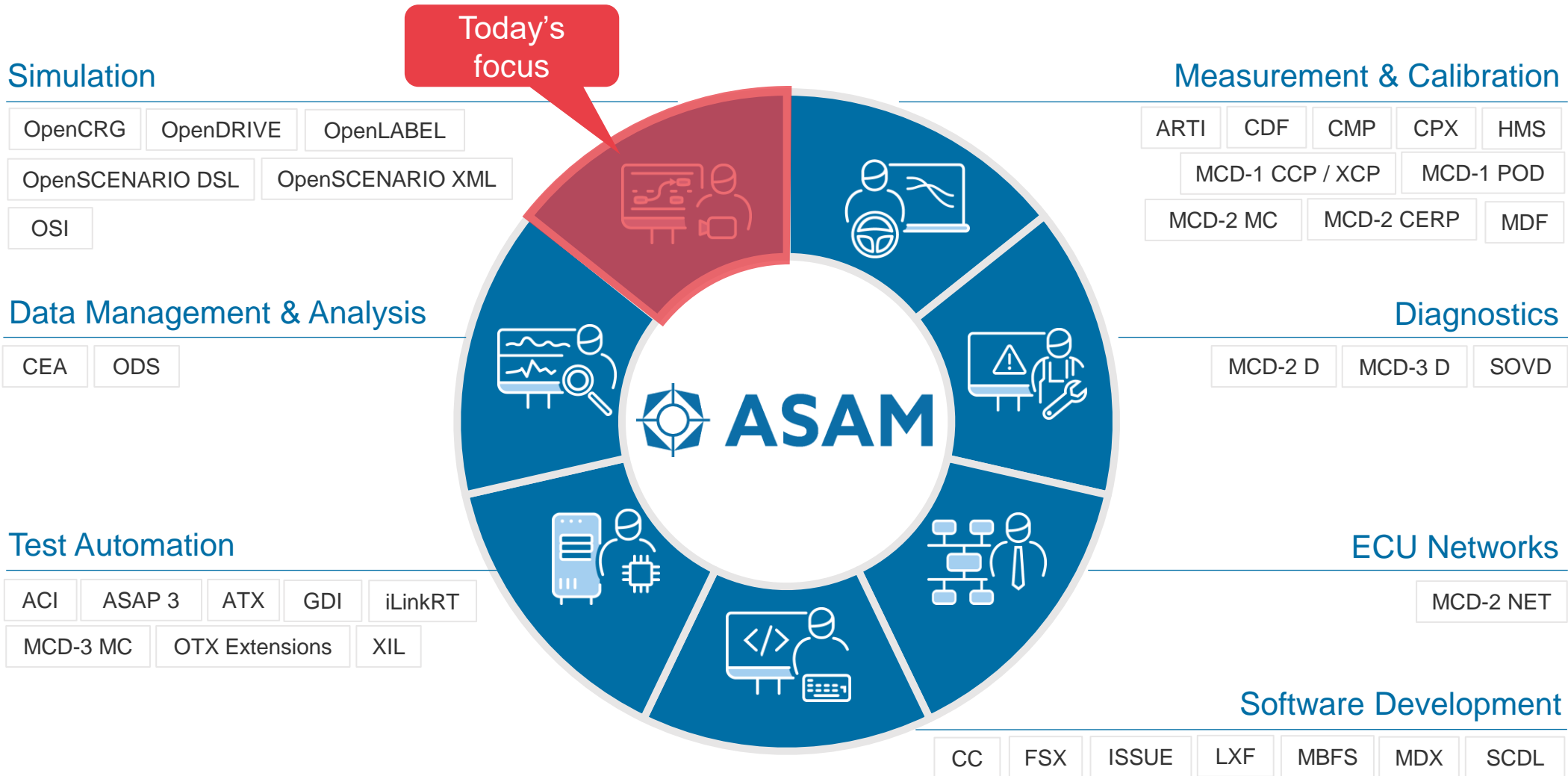
The essence of ASAM since 1998

How it works



ASAM standards portfolio

ASAM is currently active in 7 domains

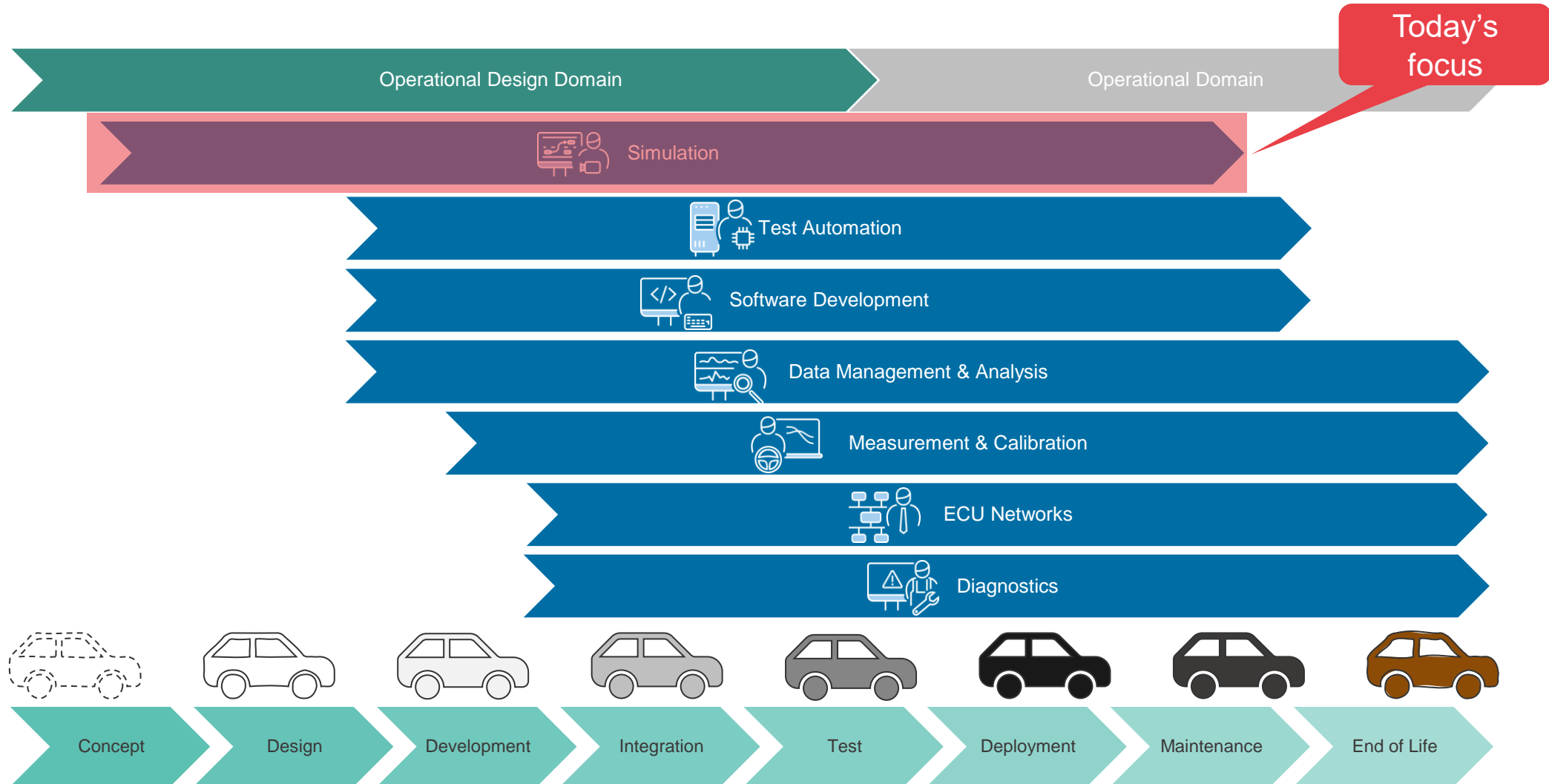


<https://www.asam.net/standards/>

Status: May 02, 2024

ASAM standards

The V-cycle and beyond – covered by ASAM domains



ASAM's offer

Today's focus

Our standards: inside and outside the vehicle

