

# Workshop 1

# Collaborative Software and Data Development

Moderator

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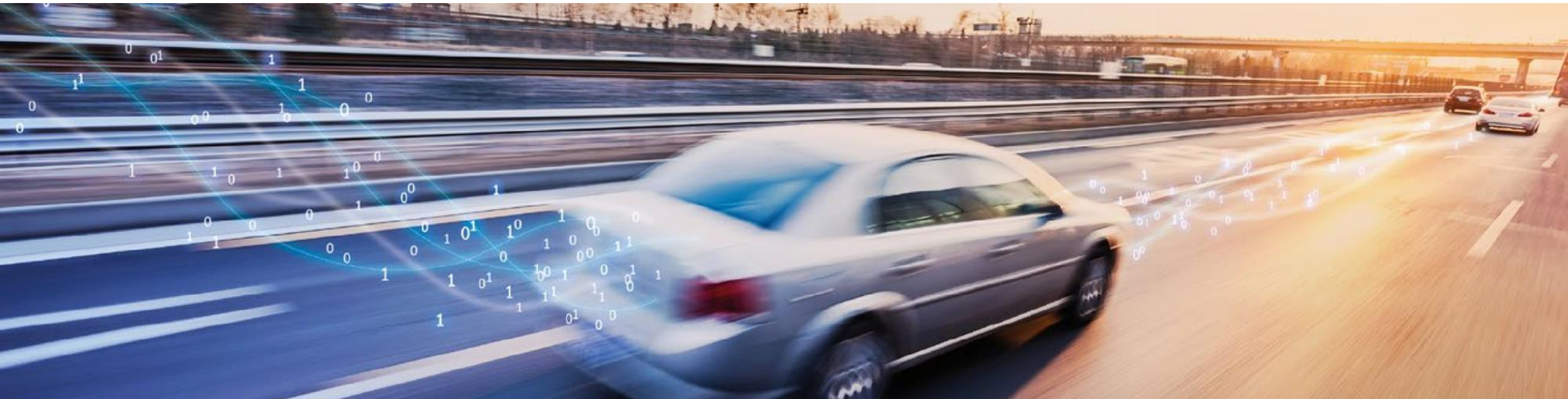
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# Collaborative Software And Data Development

This topic includes two new standardization project-types and related services at ASAM:

1. Collaborative Software Development

2. Collaborative Data Development

## Goals of the Workshop

- Inform you about trends in standardization.
- Figure out the acceptance level among ASAM members.
- Discuss ideas for projects.
- Discuss ideas for the implementation of these new project types.

# Collaborative Software Development

## Meaning

Members jointly develop source-code in an ASAM-provided project environment (guidelines, tools, budget). Source-code is free-to-use for all members after its release.

# Current Industry Trend: Open-Source Development

## Project

## Benefit

### Adaptive Platform

#### Software-First Paradigm:

Adaptive Platform software is first developed and tested on a demonstrator. Once this is working, the respective standards are derived from it.

→ Higher Standard Maturity

### Open Measured Data Management WG

#### Software Platform Principle:

Develop once. Use multiple times.

→ Reduced Costs



### Open Simulation Interface (OSI)

#### Emerging Technologies:

Urgent need for software and tools.

→ Faster Time-to-Market

# Collaborative Data Development

## Meaning

Members jointly develop data in an ASAM-provided project environment (guidelines, tools, budget). The data is free-to-use for all members after its release.

## What is "data" in this context?

- The foundation of this project type is an ASAM standard, which includes a data model.
- Projects of this type create useful content for the data model.

# Examples for Collaborative Data Development

Standard	Data
ODS	Common names for measurement equipment, quantities and channels.
OpenSCENARIO	Vehicle maneuvers, e.g. for the validation of ADAS and autonomous driving.
OSI	Ground truth signals for the validation of object-tracking algorithms.

## Potential Benefits

- Common test cases for system validation and certification of critical system, such as autonomous driving cars.

# Thank you!

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## **Workshop 1**

### **Collaborative Software Development**

→ Pavilion, 3F

## **Workshop 2**

### **Bring Your Own Ideas: Suggest New Topics for Standardization**

→ Tagungsraum, -1F

## **Workshop 3**

### **Future Development of ASAM ODS**

→ Saal, 3F