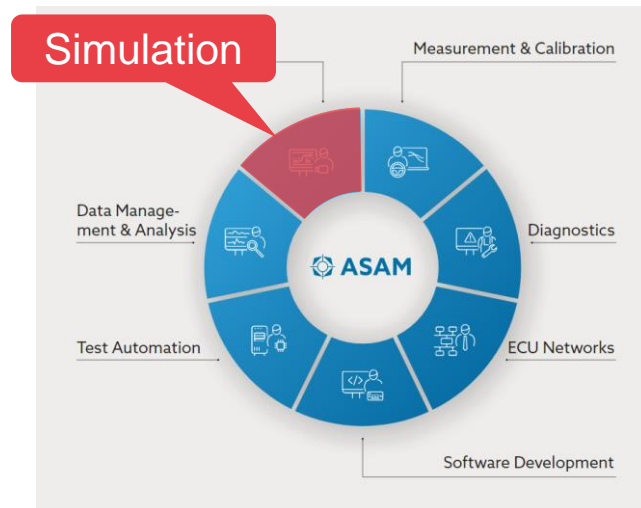


Fact sheet

ASAM OpenDRIVE®



Positioning



Topics



- First OpenX-standard to be transferred to ASAM
- Foundation for ASAM's domain „Simulation“

Scope

- Description of static road networks



Connects with

- [ASAM OpenCRG](#)
- [ASAM OpenSCENARIO](#)

Application areas

- Description of synthetic and real-world road networks
- Driving and traffic simulation

Version

1.8

Format

**XML
XSD**

License

free

First release

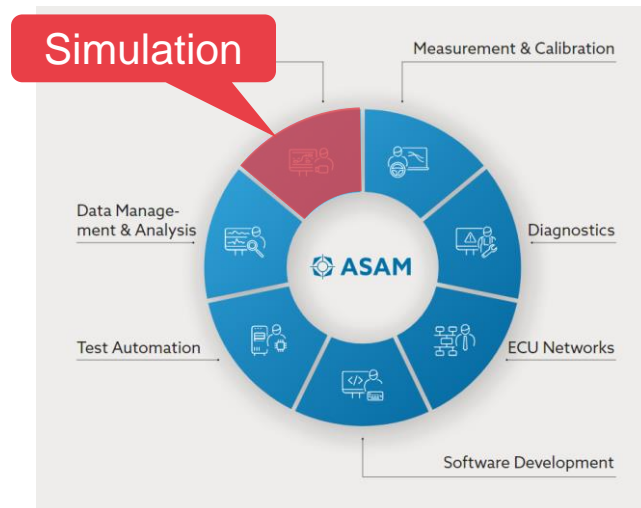
2018

Fact sheet

ASAM OpenCRG® (Curved Regular Grid)



Positioning



Topics



- OpenCRG was a joint effort by Daimler, BMW, Audi, Porsche, Volkswagen
- Transfer to ASAM in 2018 along other OpenX-standards

Scope

- Description of road surfaces



Connects with

- [ASAM OpenDRIVE](#)

Application areas

- Driving simulation
- NVH simulation
- Endurance testing

Version

1.2.0

Format

**CRG
+ s/w**

License

free

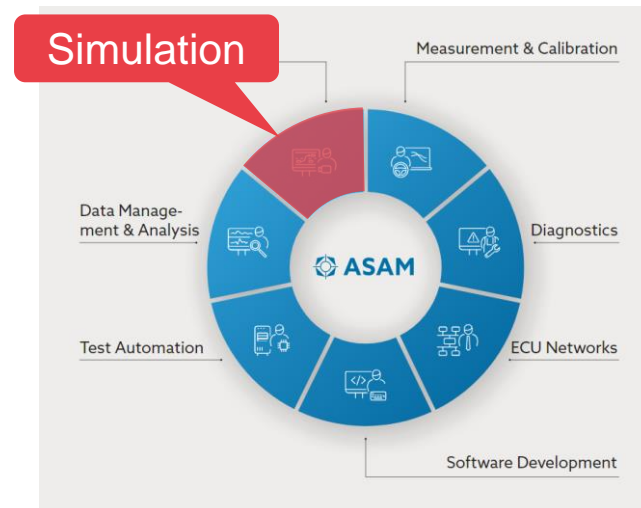
First release

2018

ASAM OpenSCENARIO®



Positioning



Version

1.2.0

Format

**XML
XSD**

License

free

First release

2018

Topics

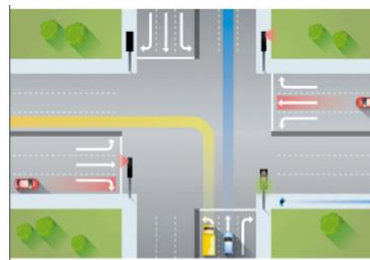
OpenSCENARIO
(VIREs, 2013)

ASAM OpenSCENARIO
(2018)

- Intended for logical (parameterized) and concrete scenarios
- Reference implementation: esmini (on github)
- Large user base

Scope

- Description of dynamic elements in road networks



Connects with

- [ASAM OpenDRIVE](#)

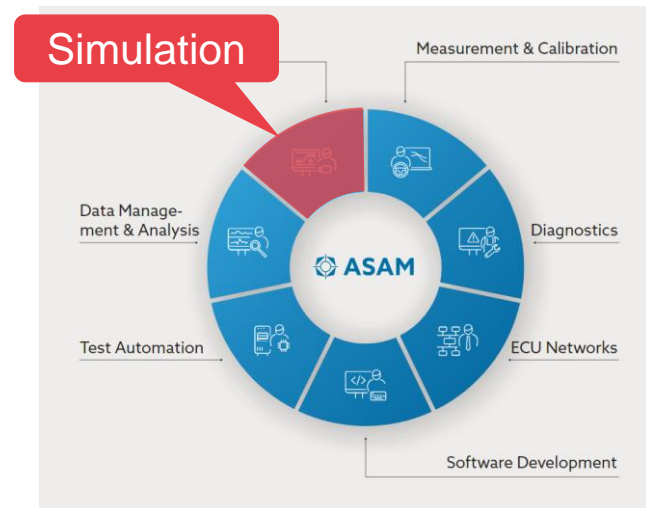
Application areas

- Traffic simulation
- Scenario simulation
- Vehicle maneuvers and actions

ASAM OpenSCENARIO[®] 2



Positioning

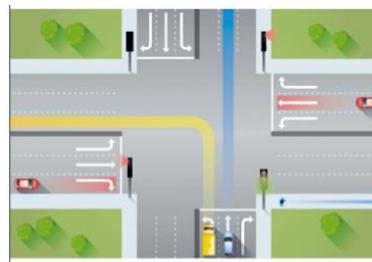


Topics

- Developed by ASAM
- Ideal for abstract and logical (parameterized) scenarios
- Abstraction of actions from static environment (road)

Scope

- Dynamic scenario description



Connects with

- n/a

Application areas

- Coverage-based testing
- X-in-the-loop testing
- Scenario simulation

Version

2.0.0

Format

**Language
+ Domain
model**

License

free

First release

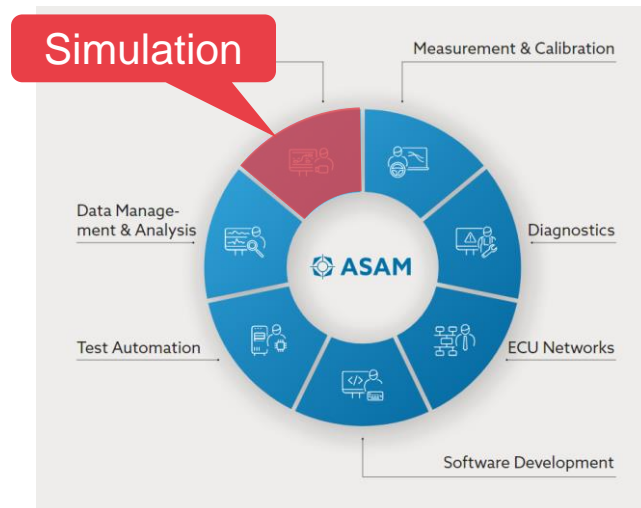
2022

Fact sheet

ASAM OpenLABEL[®]



Positioning



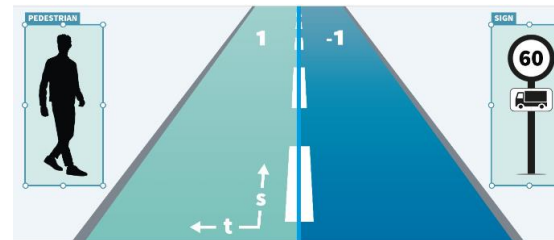
Topics

- Initiated and developed by ASAM
- Allows the import of ontologies and taxonomies
- Labeling in single frames or across series of frames
- Quickly adopted by railroad industry



Scope

- Object labeling and scenario tagging



Connects with

- [OpenXOntology](#)

Application areas

- Multi-sensor data labeling
- Scenario tagging

Version

1.0.0

Format

JSON

License

free

First release

2021