## **ASAM Open Standards**

#### Nicco Dillmann

Global Technology Manager ASAM e.V.

#### Ben Engel

Global Technology Manager ASAM e.V.





#### **Foundation & Purpose**

• 1998 as an initiative of the major German car manufacturers: **Foundation** DAIMLER To create an engineering, simulation, testing and automation environment where devices and software applications can be freely interconnected and data can be Vision seamlessly exchanged. Platform to develop, enhance and to promote standards for the automotive industry **Purpose** Legal representative of 26 standards Registered association under German law **Legal Form** Non-profit More than 270 members **Member Base** There of 26 OEMs

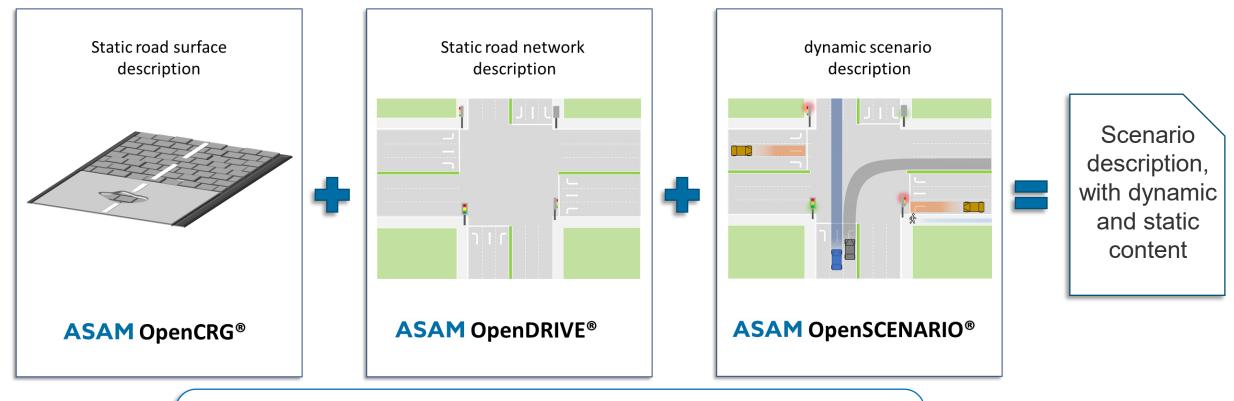


#### **ASAM Standards Portfolio**





#### **ASAM Open Standard Overview**



The ASAM Open Standards are exchange formats for Simulations.

Describing different parts of a simulated scenario.

Each standard can be used stand alone or in combination with other standards.



#### **ASAM Simulation Domain Overview**

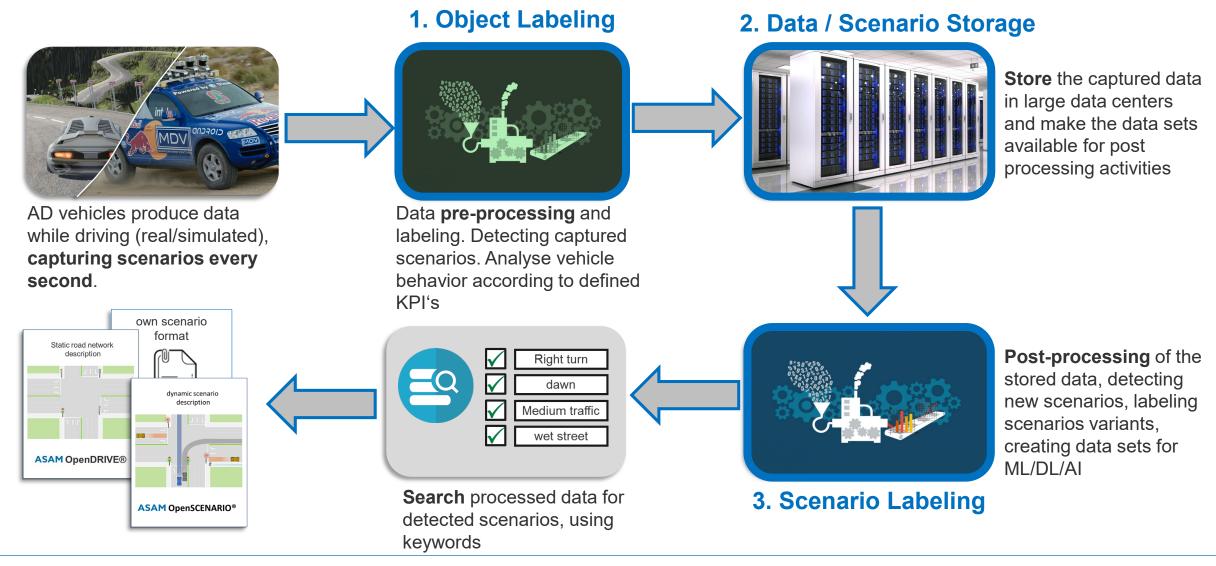
- Two active projects for each of OpenDRIVE & OpenSCENARIO:
  - Transfer → move the content of existing documentation to ASAM style as a base for all further ongoing developments;
    Includes consolidation & creation of user & style guides; No development activity!
  - Current Status: Both projects on track to meet project deadline of 31.12.2019
  - Project results (new standard versions) to be released in Q1 2020 under open source license terms
  - Concept → address current and upcoming requirements on the standards as obtained from the full development process of autonomous vehicles and the full complexity of real-world scenarios, including complex inner-city traffic.
    - Current Status: Conceptual development activity in sub-working groups for individual features
    - Projects scheduled to end: 31.12.2019 OpenSCENARIO / 31.08.2020 OpenDRIVE
    - Concept papers and any accompanying documentation will be available to all ASAM members
- OpenCRG → Transfer (as above) and further development
- OpenSimulationInterface → Transfer to ASAM underway open-source under MPL2.0
- CoordinationGroup Simulation:
  - communicate between ASAM simulation projects
  - Establish cooperation relationships and align with other parties
  - Perform whitespot analysis in the simulation domain



# **Ideation Topic**Data and Scenario Labeling

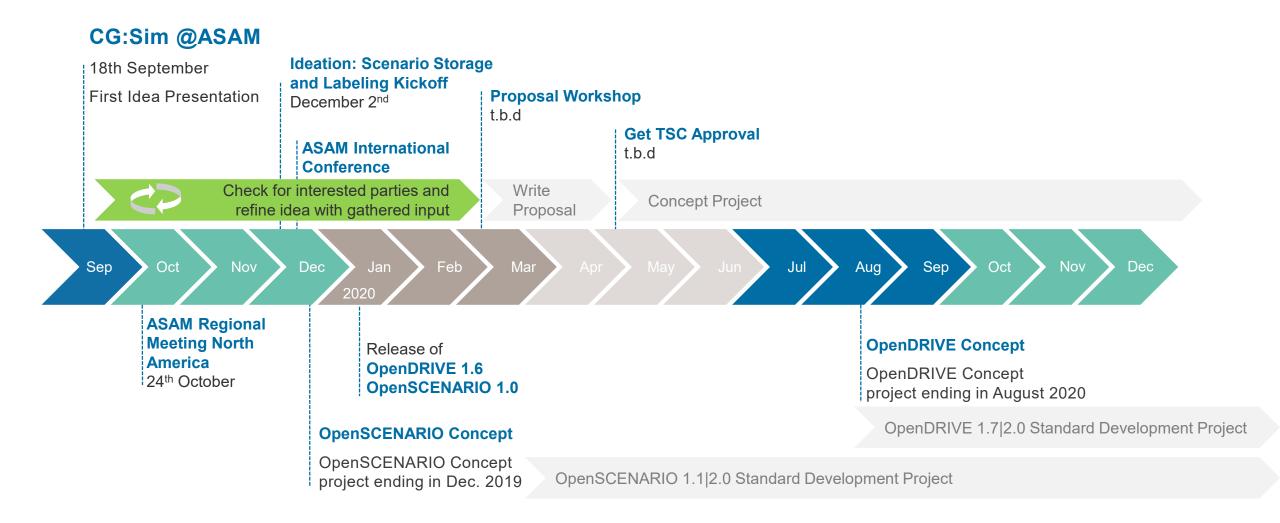


#### Life of the recorded data





#### **Timeline**





#### **ASAM International Conference**

**ORGANIZATIONAL** 

**Day and Time** Tuesday, Dec. 10, 2019 9:00 – 17:00

Wednesday, Dec. 11, 2019 9:00 – 16:00

Venue International Congress Center

Ostra-Ufer 2

01067 Dresden, Germany Phone: +49 351 216-0

www.dresden-congresscenter.de

Hotel Recommendation Maritim Hotel

Ostra-Ufer 2

01067 Dresden, Germany Phone: +49 351 216-0

www.maritim.de (Code: ASAM)

Dinner Reception Tuesday, Dec. 10, 2019

**ASAM** INTERNATIONAL CONFERENCE Dec. 10-11, 2019 Dresden, Germany www.asam.net

https://www.asam.net/conferences-events/detail/asam-international-conference-2019/



### Thank you for your attention.

Nicco Dillmann Global Technology Manager

ASAM e.V.

Email: nicco.dillmann@asam.net

Phone: +49 160 9921 8048

Adress: Altlaufstraße 40, 85635 Hoehenkirchen

Ben Engel

Global Technology Manager

ASAM e.V.

Email: <u>Benjamin.engel@asam.net</u>

Phone: +49 1516 1645 936

Adress: Altlaufstraße 40, 85635 Hoehenkirchen

