

TRANSPORTATION RESEARCH BOARD

The 2022 TRB Annual

Automated Road Transportation Symposium

Garden Grove, CA
• July 18–21, 2022

ASAM OpenODD in a nutshell

Benjamin Engel, CTO, ASAM e.V.

(sorry I couldn't be here in person this year!)

benjamin.engel@asam.net



Motivation for ASAM OpenODD

- In order to enable stakeholders to share, compare and re-use ODD definitions, there is a need for standards that
 - outline the attributes to be used for ODD definition (taxonomy)
 - provide a format for defining the ODD using those attributes
- BSI PAS 1883 provides a taxonomy for ODD
- ISO 34503 uses the taxonomy to provide a high-level definition format for ODD
- ASAM OpenODD aims to provide a machine readable and clearly exchangeable format for this high-level format
- This format is measurable and verifiable for the attributes it specifies

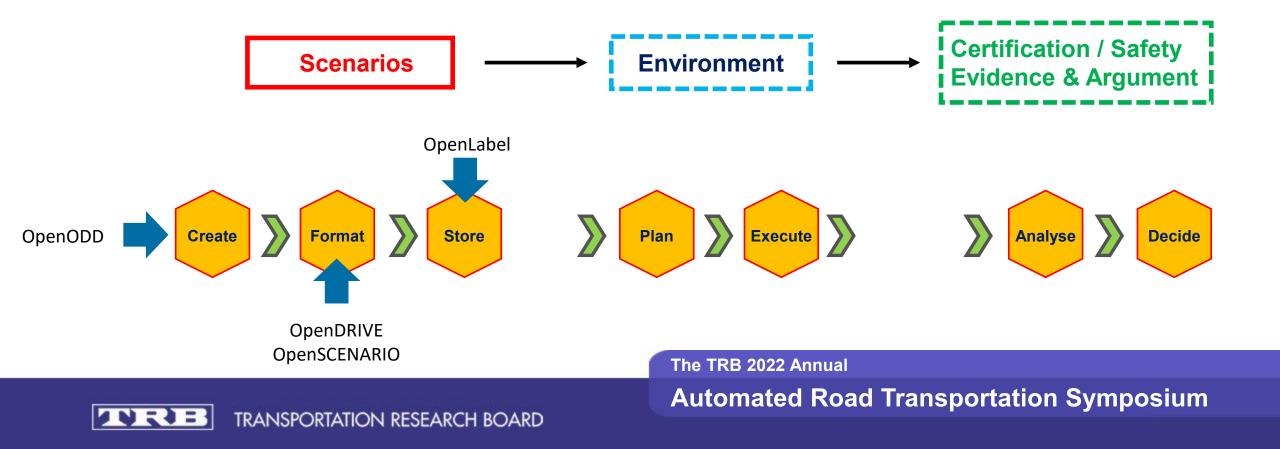
The TRB 2022 Annual

Automated Road Transportation Symposium



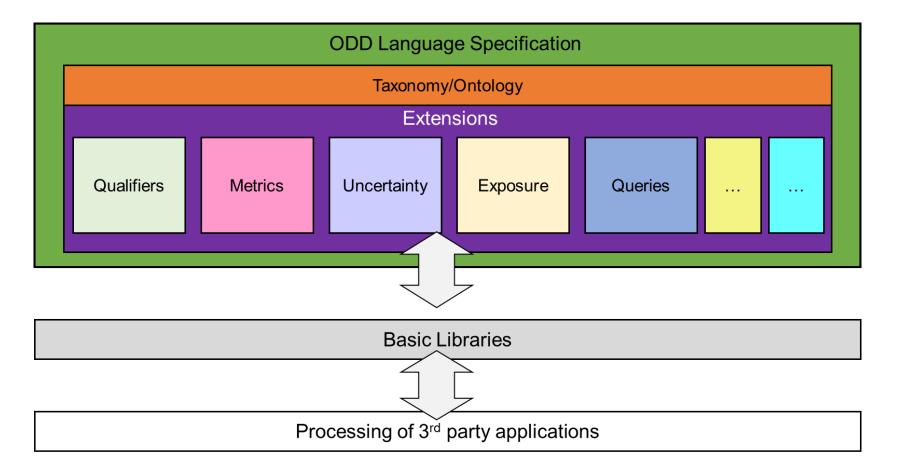
Scope

The aim is to provide a format that is capable of representing a defined Operational Design Domain for testing of connected automated vehicles (CAVs).



Scope

- The focus of the ASAM OpenODD project is on the language specification with the extensions
- A Taxonomy / Ontology will not be developed in the ASAM OpenODD project but may be referenced by it
- The extensions to be handled in version 1 of ASAM OpenODD will be finalized in during the early phases of the project
- See the preliminary work we did in the concept paper here: <u>https://www.asam.net/standards</u> /detail/openodd/

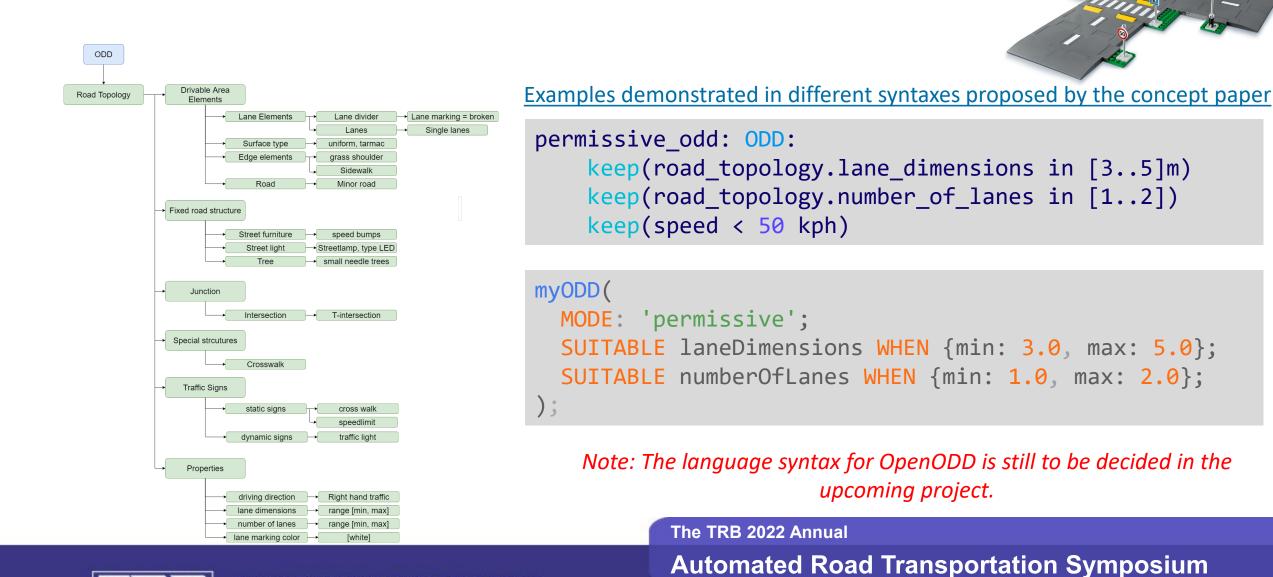


The TRB 2022 Annual

Automated Road Transportation Symposium



ODD Definition Example





The ASAM OpenODD project

- Project kickoff proposed for early August
- Project end and V1.0.0 release planned for Q1 2024
- Project enrollments are open!
- Interested but not sure if the standard is for you?
 - First phase (2 months) of the project is focused on knowledge sharing what is OpenODD
 - Enrollment to the initial phase is open to all (including non-members)
 - Scope finalisation and the development of the standard is restricted to ASAM members only

See project proposal and enroll online here: https://www.asam.net/project-detail/asam-openodd-v100

The TRB 2022 Annual

Automated Road Transportation Symposium





TRANSPORTATION RESEARCH BOARD

The 2022 TRB Annual

Automated Road Transportation Symposium

Garden Grove, CA

July 18–21, 2022

Thank you!

Benjamin Engel, CTO, ASAM e.V.

⊠ benjamin.engel@asam.net

in benjamin-engel