

# ASAM OSI 4.0 Proposal Workshop - Focus: FlatBuffers and Performance

Jan. 18, 2022

Dr. techn. Kmeid Saad

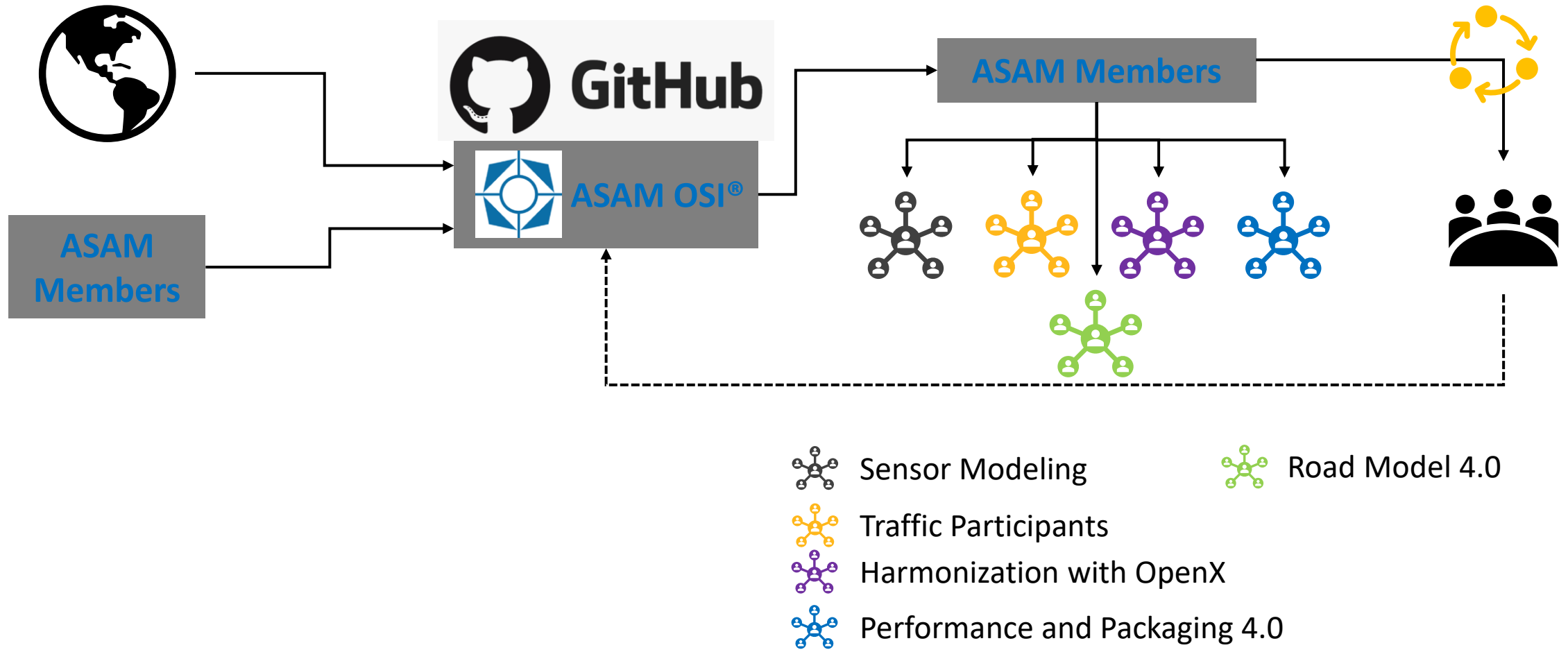
[kmeid.saad@ansys.com](mailto:kmeid.saad@ansys.com)



# / Agenda

- ~~1. Welcome – Stefan Cyliax~~
- ~~2. Introduction to ASAM OpenX – Stefan Cyliax~~
3. Current Developments (OSI 3.5) – Dr. Kmeid Saad
4. Toward ASAM OSI 4.0 – Dr. Kmeid Saad
  - SensorView/Environment Conditions etc..
  - Performance/FlatBuffers/RoadMdel – Pierre Mai (PMSF)
5. OSI Performance and FlatBuffers – Philipp and Clemens (Persival)

# ASAM OSI – Working Model




# ASAM – OSI

- <https://www.asam.net/standards/detail/osi/>
- <https://github.com/OpenSimulationInterface/open-simulation-interface>

## DOWNLOADS





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**ASAM OSI v 3.4.0**  
(Free of charge for members) 


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## VIEW ONLINE

(Free of charge)

Release Presentation	PDF (615 KB)	
User Guide [Quick Read]	HTML (1 MB)	
ASAM OSI V3.4.0 Release [GitHub]		
ASAM OSI V3.4.0 Reference Documentation	HTML (0 B)	

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### ASAM Open Simulation Interface (OSI)

ASAM provides a non-competitive platform to allow experts to create industry standards.

<https://asam.net> [info@asam.net](mailto:info@asam.net)


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#### Pinned

[open-simulation-interface](#) Public


A generic interface for the environmental perception of automated driving functions in virtual scenarios.

Python 202 100

[osi-sensor-model-packaging](#) Public

This document specifies the ways in which sensor models are to be packaged for use in simulation environments with FMI 2.0

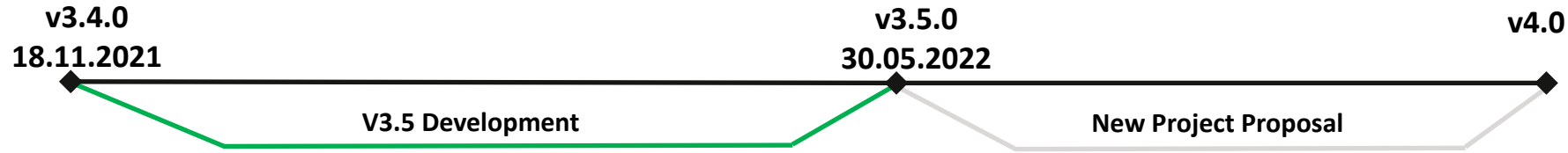
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[osi-validation](#) Public

Tools around the OSI used to verify the content of messages and more.

Python 7 5

# ASAM OSI – v3.5 & v4.0



- v3.5.0 to cover the following pull requests (non-backward compatible pull requests need to be shifted to v4.0):
  - Feature/groundtruth configuration message [#581](#)
  - Added Timestamp for each Moving Object. [#546](#)
  - WIP: introducing mesh approach for modelling road surface [#574](#)
  - WIP: Introduce PedestrianClassification [#498](#)
  - Feature/tp/had output [#452](#)
  - Add Longitudinal Rotation of Lane Boundaries [#436](#)
  - Proposal/recommendation of actions and features to be considered for v4.0.
- v4.0.0 – New Project Proposal
  - Focus on non-backward compatibility features and ISO 2315.