

# Antitrust Policy Notice

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# OPENPASS

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STEERING COMMITTEE MEETING

29<sup>TH</sup> AUGUST 2019

SKYPE

TUAN DUONG QUANG



# AGENDA



1. openPASS 1.0
  - 1.1 Framework
  - 1.2 Roadmap Progress
2. Maintenance TULEAP
3. openPASS 0.6 Review
4. Webpage (Daniel Schmidt, Bosch)
5. Assessment of the marketability of a neuro-cognitive traffic agent model
6. Naming openPASS
7. Fairs

# 1. OPENPASS 1.0



**High Level Target?**



**What is necessary?**



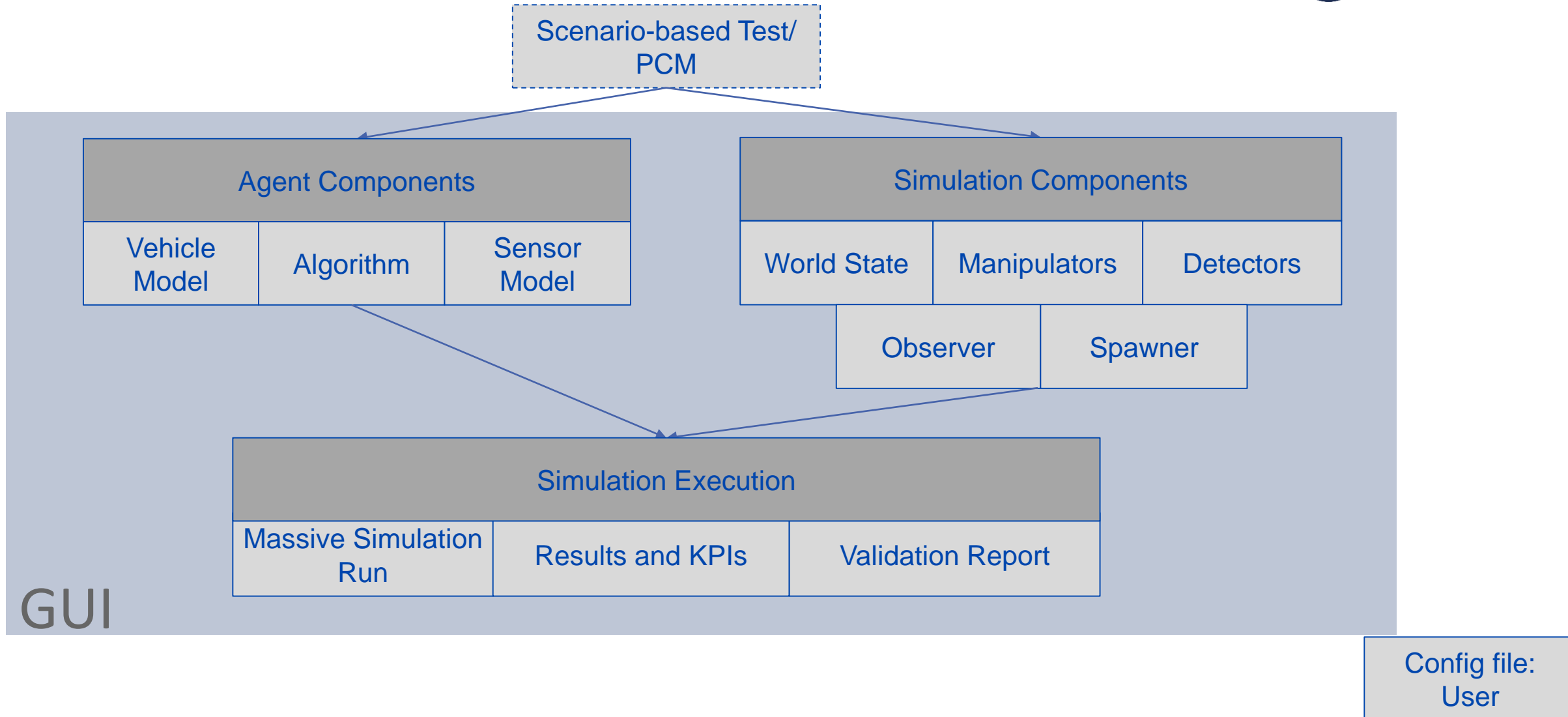
**MVP: What is part of V1.0?**

2020

January	February	March	April
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
May	June	July	August
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
September	October	November	December
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

**When to be established?**

# 1.1 OPENPASS 1.0 – FRAMEWORK



# 1.2 OPENPASS 1.0 – ROADMAP PROGRESS



1. High-Level Targets

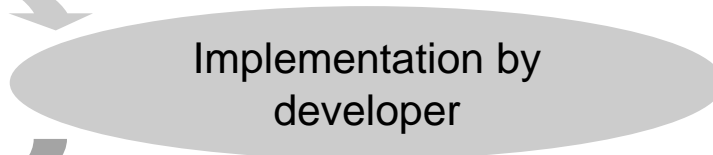
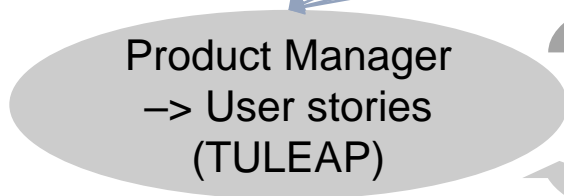
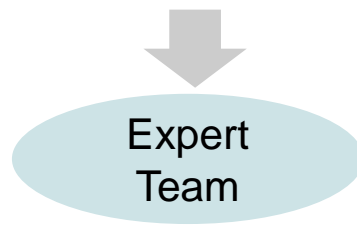
World State
openSCENARIO
...

Execute Simulation
Play Button
Live Visualization
...

Generate Validation Report
Meta Information
Criteria pass/failed
...

Documentation
Guided learning by doing
Example run
...

2. Requirements



## 2. MAINTENANCE TULEAP

- <https://tuleap.eclipse.org/plugins/tracker/?aid=765>:
- No status
- No responsible person
- No due date
- > Product manager will purge TULEAP

DevTasks #765
PCM\_World
Actions

ARTIFACT

<b>Artifact ID</b> #765	<b>Last Modified On</b> 2017-06-01 08:59
<b>Submitted by</b> Jan Dobberstein (jan_dobberstein)	<b>Submitted on</b> 2017-02-02 15:35

Details

**Summary \***  
PCM\_World

**Original Submission**

The re-simulation of so-call "pre-crash matrices" (PCM) from an real-world accident database is one use case based on the openPASS framework.

A "PCM\_World" module is needed to load the road information stored as points and lines in this database and make it available to agents.

<b>Category</b> Empty	<b>Priority</b> Empty
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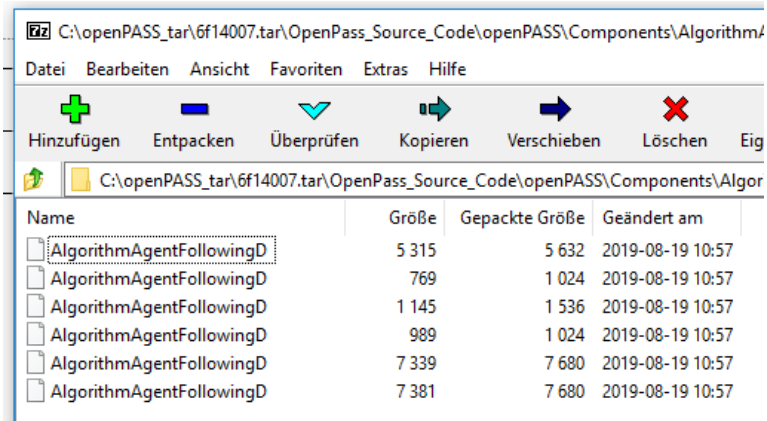
State of Progress

<b>Start Date</b> 2017-02-02	<b>Due Date</b> Empty	<b>End Date</b> Empty
<b>Percentage of completion (1-100)</b> Empty	<b>Assigned to (multiple)</b> Empty	<b>Status</b> On going

# 3. OPENPASS 0.6 REVIEW



- Missing version number
- Incomplete download of the source code possible. String is truncated after a certain length



- Incomplete documentation: Missing third party dependency, wrong commands. Documentation is currently improved by Arun



# 4. WEBPAGE, DANIEL SCHMIDT, BOSCH



# 5. ASSESSMENT OF THE MARKETABILITY OF A NEURO-COGNITIVE TRAFFIC AGENT MODEL



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26<sup>th</sup> of August 2019

## Assessment of the marketability of a neuro-cognitive traffic agent model

Dear Mr. Knorr,

The openPASS working group is a collaboration between Volkswagen AG, Daimler AG, BMW Group, TÜV Süd and Robert Bosch GmbH with the aim of offering an open simulation platform for the development and validation of autonomous driving and driver assistance systems.

The simulation of critical traffic situations forms a fundamental basis for the development of automated driving functions. In order to ensure a high validity of these simulations, there is a need for software modules that are able to represent the behavior of human road users as realistically as possible.

Agent models of traffic participants based on sensorimotor and neuro-cognitive research provide a very promising solution from our point of view. As a provider and user of an open simulation platform, we expressly welcome the development of neuro-cognitive agent models and their integration into openPASS. Hence, we can confirm the high market potential of the intended neuro-cognitive traffic agent models, and we are looking forward to your product.

Best regards,

p.p. openPASS Consortium

# 6. NAMING OPENPASS



Open Platform for Assessment of **Safety Systems**  
→ Open Platform for Assessment of **System Safety**

# 7. FAIRS



- 17.09.2019: Bitkom Forum Open Source 2019 in Erfurt
  - Topics from digital ecosystem
  - Platform for exchange, stocktaking and concepts of efficient and transparent cooperation with Open Source.
  - Agenda, Information: <https://www.bitkom.org/bfoss19>
- 18.09.2019: ASAM Standards und Eclipse Foundation Automotive Working Groups
  - Topic: Standardizations in the simulation domain
  - 20 min project presentation + 15 min discussion
  - Synergies between other projects (openSCENARIO, openDRIVE, CARLA, SetLevel4to5, VVMMethoden)
- 21.10.2019-24.10.2019 EclipseCon in Ludwigsburg
  - Monday, 21 October 2019, 9:00 - 18:30 Community Day: project meetings, technology discussions, workshops, coding sessions, working group gatherings
  - Tuesday, 22 October 2019, Community Evening: meetup, hackathon, coding session
- 22.01.2019 – 24.01.2019: SAE Industry/Government Meeting 2020 in Washington, District of Columbia, USA (VW GOA)