

# ASAM OpenLABEL V1.0.0 Webinar

## Multi-Sensor Data Labeling and Scenario Tagging

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# Agenda

OpenLABEL V1.0.0 Release Webinar

<b>1</b>	<b>Motivation and The Journey</b>
<b>2</b>	<b>Intro and Structure</b>
<b>3</b>	<b>Intro to Multi-Sensor Data Labeling</b>
<b>4</b>	<b>Intro to Scenario Tagging</b>

# Motivation & The Journey

OpenLABEL V1.0.0 Release Webinar

# OpenLABEL V1.0.0 Multi-Sensor Data Labeling

## Intro & Motivation

Motivation	Goals	Personas
<ul style="list-style-type: none"><li>• limited reuse of annotated datasets.</li><li>• Challenges regarding maintenance and update of the annotations.</li><li>• Limited sharing of datasets across the industry and between industry and academia.</li><li>• Negative impact on the quality of annotations.</li></ul>	<ul style="list-style-type: none"><li>• Enable efficient sharing of annotated perception datasets and object lists.</li><li>• Increase the overall quality of annotations by providing a common data structure for annotations.</li><li>• Improve maintainability and reuse of annotated datasets.</li></ul>	<ul style="list-style-type: none"><li>• Perception/computer-vision engineers</li><li>• Machine-learning engineers</li><li>• Perception/computer-vision research scientists</li><li>• Machine-learning research scientists</li><li>• Data-annotation engineers</li><li>• Data-annotation analysts</li><li>• Test engineers</li></ul>

# OpenLABEL V1.0.0 Scenario Tagging

## Intro & Motivation

Motivation	Goals	Personas
<ul style="list-style-type: none"><li>• Scenario databases storing multi-sensor data, annotated multi-sensor data, simulation scenarios, and test scenarios can be very extensive</li><li>• Challenges regarding storing, retrieval and filtering of scenarios according to semantic classes/characteristics.</li></ul>	<ul style="list-style-type: none"><li>• Enable standardized clustering of test scenarios in scenario databases.</li><li>• Facilitate scenario storage systems, which are independent of scenario definition representation.</li><li>• Enable efficient search and filtering of test scenarios in scenario databases.</li><li>• Enable sharing of information on test scenario categories and clusters between different databases or owners.</li><li>• Facilitate the sharing of scenarios between systems that may not have the ability to inspect the scenario definition or underlying scenario data.</li><li>• Improve maintainability and reuse of test scenarios and scenario data.</li><li>• Enable and enhance machine-learning datasets with additional information to organize the datasets.</li></ul>	<ul style="list-style-type: none"><li>• Systems engineers</li><li>• Validation and verification engineers</li><li>• Functional-safety engineers</li><li>• Simulation specialists</li></ul>

# The Journey

ASAM OpenLABEL V1.0.0 from Inception to Completion



# The Members

ASAM OpenLABEL V1.0.0 from Inception to Completion

## Members

- Deepen AI
- Advanced Data Controls Corp.
- AKKA GmbH & Co. KGaA
- Altran Deutschland S.A.S.&Co.KG
- Annotell AB
- Ansys, Inc.
- Automotive Data of China (Tianjin) Co., Ltd
- Dataloop
- Deutsches Zentrum für Luft- und Raumfahrt e. V.
- Five AI
- iASYS Technology Solutions Pvt. Ltd.
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- UnderstandAI GmbH
- UniqueSec AB
- Vicomtech
- WMG University of Warwick
- AI3DENSORY
- Caliber Data Labs
- Incenda AI GmbH
- Spring Cloud