



ADS Standards Hot Topics: Operational Design Domain & Operating Envelope Specification

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Overview of Operational Design Domain (ODD)



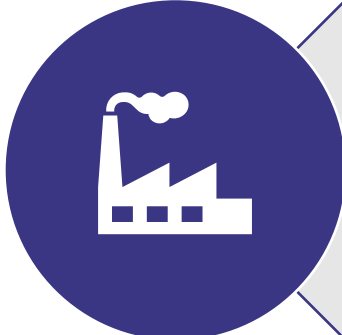
Operating conditions under which a given driving automation system, or feature thereof, is specifically designed to function



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Usage of ODD



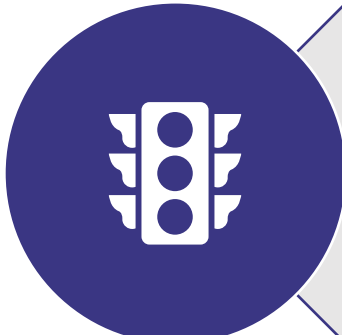
ADS developers and manufacturers

- Establishes operational boundaries for purposes of development and testing




Universities and researchers

- Informs research on ADS performance, use cases and business models



Infrastructure owners and operators

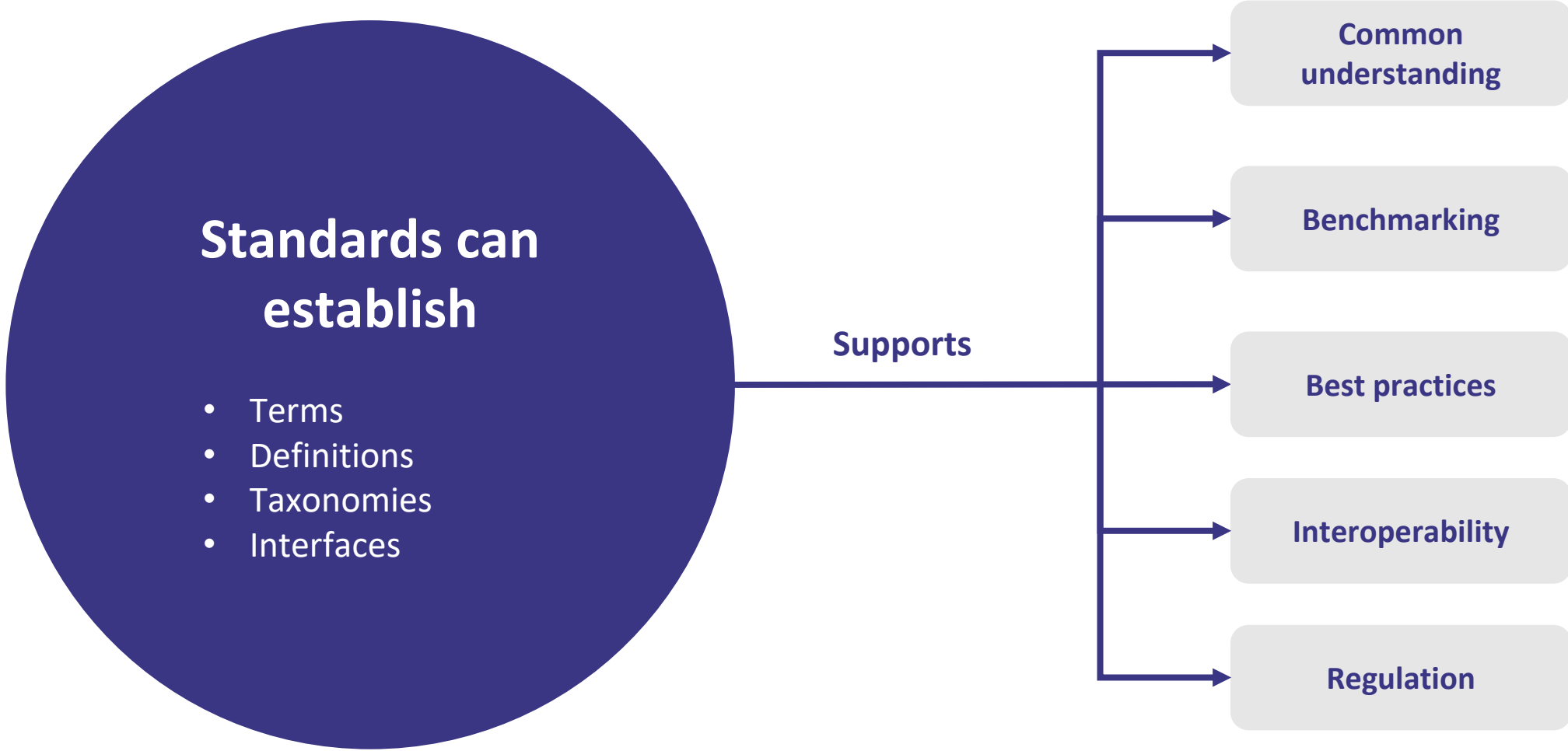
- Supports infrastructure planning and operations



Government and regulators

- Informs ADS policy development (e.g., restrictions on ODD)

Importance of standardization



Session overview

Session objectives:

- Understand how the ADS community is using ODD and why ODD standardization is needed
- Describe the current ODD standards landscape and what gaps still need to be addressed to support ADS safety standardization
- Highlight various ODD taxonomies and other tools that may be needed (e.g., OES) to support ODD usage
- Clarify and resolve confusion with respect to ODD definitions (ODD vs. OES vs usage vs. capabilities)

Agenda Topic	Timeslot
Session introduction	1:30 p.m.–1:40 p.m.
Current and planned standards activities for ODD/OES	1:40 p.m.–2:25 p.m.
“Beat the experts”	2:25 p.m.–2:45 p.m.
Break	2:45 p.m.–3:00 p.m.
How is ODD being used?	3:00 p.m.–3:45 p.m.
Where do we go from here? (Panel Q&A)	3:45 p.m.–4:20 p.m.
Closing comments & wrap-up	4:20 p.m.–4:30 p.m.

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“Beat the experts”

- To participate in this activity and provide live feedback, please go to the site below.

ahaslides.com/ARTS22

Summary & relevant tools

- There are significant ongoing efforts to standardize taxonomies, definitions and formats for representing ODD and OES.
- Stakeholders from across the ADS community have a variety of approaches and perspectives on the usage of ODD.
- To help track ADS standards activities, the SAE CAVSource web-based interactive tool has been developed.
 - If you are interested in getting access to the tool, please contact jim.andrews1@parthenon.ey.com.

Thank you!

- Thanks to all session presenters and participants!
- For any further information or feedback, please feel free to reach out to Jim Andrews (jim.andrews1@parthenon.ey.com) or Gil Amid (gil.amid@foretellix.com).