Comprehensive Modular Verification and Validation Framework for Automated Systems

Andrea Leitner, AVL, November 28, 2018

http://www.enable-s3.eu/

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How can we make sure that the automated system behaves correctly in every situation?
Project consortium

➢ 68 Partners
➢ 16 Countries
➢ 6 Domains
➢ 12 Use Cases
➢ Industry as well as academia
Testing challenge - Automotive

The Challenge

- e.g. 30 Vehicle Variants
- e.g. 10 Assistant Systems

Examples:
- 12 ACC Use Cases
- 16 Parameters

360,000,000 Cases
576,000,000 Cases* * 0,5km
288,000,000 km to test

* 0.5 km

Not feasible with real world testing
Virtual Validation – Model in the loop
Virtual Validation – Vehicle in the loop
Public event after second project year

- 140 participants, 3 keynotes, 35 demonstrators
- Video: https://youtu.be/2-kNTQc_LmY
Dissemination Material

Also available at the ENABLE-S3 booth!!!
Final steps in the project

• Finalize the technology bricks and demonstrators
• Document and publish the project results
• Push results into standardization working groups to ensure sustainability
ENABLE-S3 Final Event

May 16 – 17, 2019, Graz, Austria

European Initiative to Enable Validation for Highly Automated Safe and Secure Systems

• Keynote speakers from renowned companies
• Large exhibition presenting around 35 prototypes developed within this project
• Networking opportunities with experts representing industry, academia and funding authorities
THANK YOU

ECSEL JU

See you @ the ENABLE-S3 booth

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