



ENABLE-S3 Challenges, Goals & Achievements

Andrea Leitner, AVL List GmbH

This project has received funding from the ECSEL Joint Undertaking under grant agreement No 692455. This Joint Undertaking receives support from the European Union's Horizon 2020 research and innovation programme and Austria, Denmark, Germany, Finland, Czech Republic, Italy, Spain, Portugal, Poland, Ireland, Belgium, France, Netherlands, United Kingdom, Slovakia, Norway.

How to avoid this? and achieve that?



<https://www.fnp.de/lokales/biaulich-st1879542/66-jaehriger-landet-maedrescher-dach-10784090.html>



<https://www.landeskrankenhaus.at/gesundheitsunternehmen/standorte/kh-feldkirch>



<https://www.thelocal.no/20170711/norwegian-shipbuilder-to-take-part-in-robot-vessel-project>



<https://www.bbc.com/news/business-38089984>

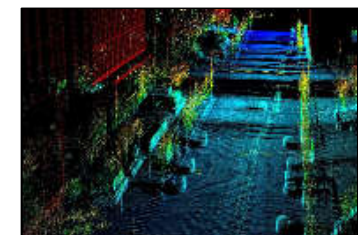


Philips Healthcare



Vision of ENABLE-S3

European technological leadership in development and deployment of highly automated and autonomous cyber-physical systems, enabled by new functional, safety and security verification and validation approaches



Implementation

68 Partners

70 M€ budget (highly automated systems)

16 Countries

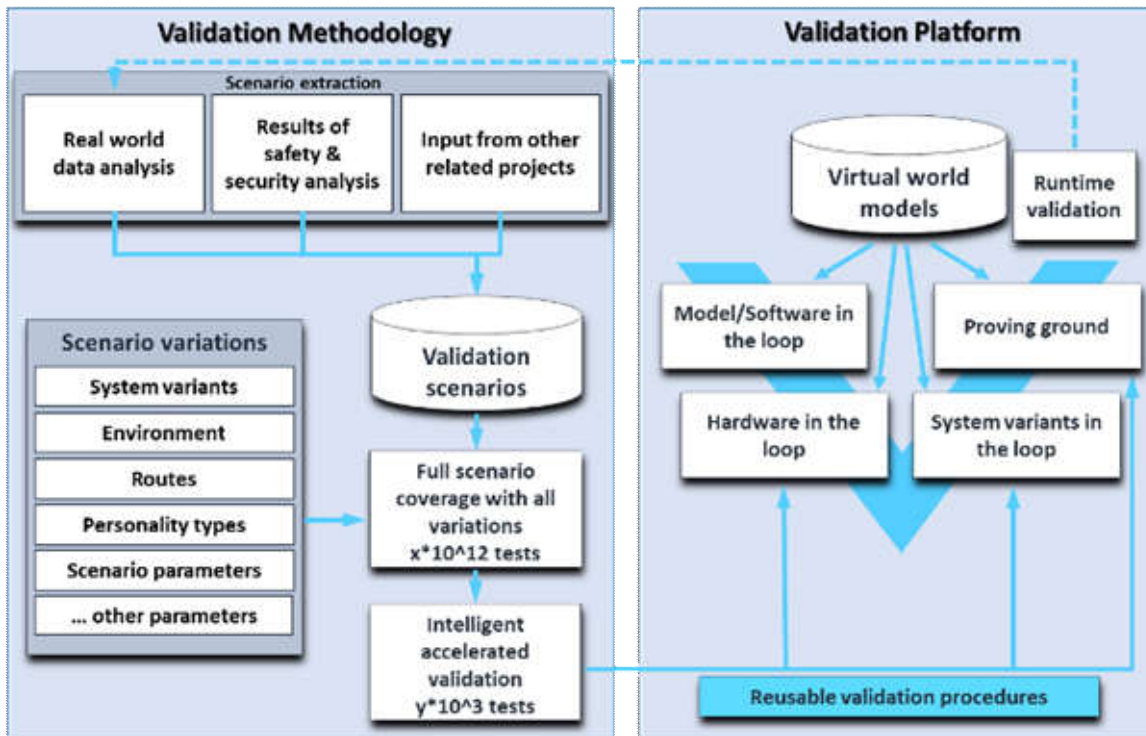
6 Domains (Automotive, Farming, Rail, Maritime, Aerospace, Health)

Full Value Chain for automated systems

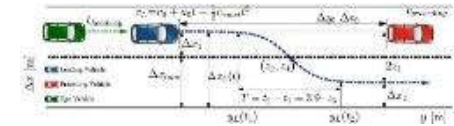
- 7 OEMs as producer of end-customer products
- 12 Component supplier / tiers
- 5 Academia (highly automated systems)
- **20 Tool suppliers**
- **23 Academia (V&V Methodology)**



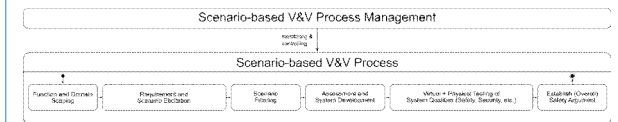
Overview Essential Results



Scenarios and Scenario Classes



Scenario-based V&V methodology



Cross-domain R&D

Best practice sharing

Generic reference architecture

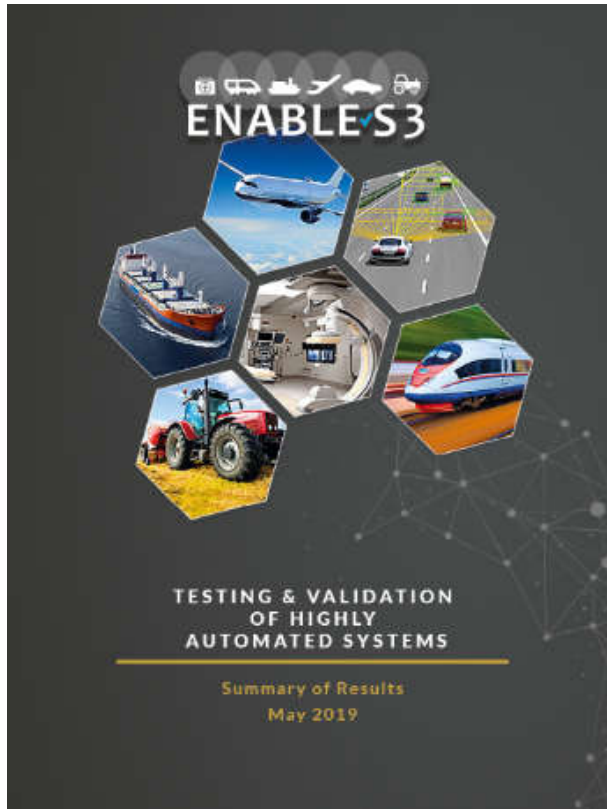


Reusable technology bricks

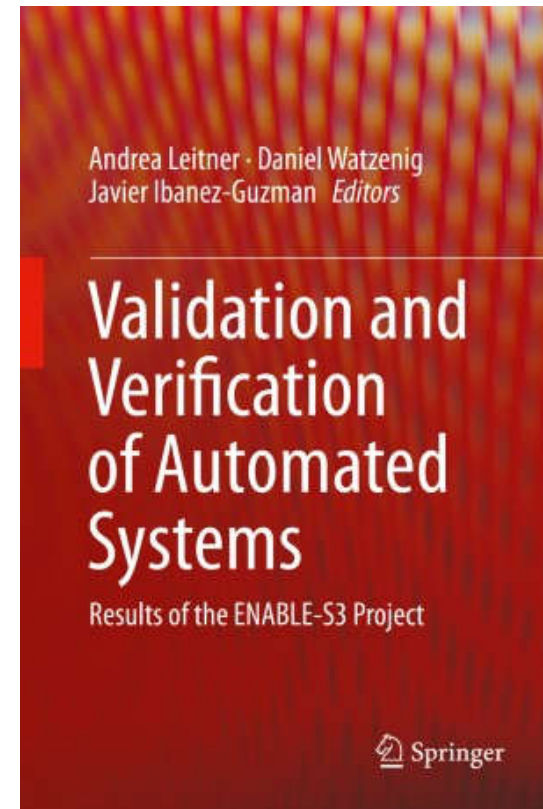


ENABLE-S3

More Information



<https://drive.google.com/file/d/15c1Oe69dpvW5dma8-uS8hev17x-6V3zU/view>



<https://link.springer.com/book/10.1007/978-3-030-14628-3>