What is the current status and what challenges exist in the safety validation of automation technology?

08 - 08 Sep 2020

Poll results
Where are you (your organisation) based?

- Sweden
- Germany
- UK
- Netherlands
- US
- Belgium
- France
- Finland
- Ireland
- Spain
- Worldwide
- Germany (Bavaria)
- Austria
- Germany/US
What are you hoping to learn or take away from today's webinar? (1/3)

- New inspirations, insights in the industry, getting to know important players
- Validation in general and related to regulation and standards
- How can road user safety be assured when more and more vehicle system updates are done over the air?
- Understanding current challenges and how the public side can support solution development focusing on the secondary road network
- New ideas for validation
- More perspectives on safety testing
- Getting prioritization of topics for the different stakeholder
- Understand the current availability for testing tools both for OEMs and system components, as well as the industry perception when it comes to pedestrian safety as well
- Interested to hear what SME from around Europe are researching in safety testing of automated vehicles
What are you hoping to learn or take away from today's webinar?

- Learn how to communicate about benefits and restrictions of automation to the public
- Current status and challenges
- Safety and Automation
- Safety Validation Current Status
- Trends and opportunities
- Good understanding of current and future challenges for Safety validation
- Insights about public initiatives concerning automation technology
- Views on shared control strategies wrt steering performance.
- State of the tradecraft of AV safety
- Automated freight validation
- What is the current status on safety validation for CAD technologies?
- Information about status for safety validation of CAD
- How we intend to test L3 and above
- What the current situation at self-driving/ADAS systems
- Do's and Don'ts connected
What are you hoping to learn or take away from today's webinar?

(3/3)

• How we can better understand the capabilities and ODD of AVs.
• Understand how to solve the remaining challenges for safe connected automated driving.
• What is the state of the art in safety validation of automation technology.
• Status and trends for validation methods and regulations.
• Getting updated on close-to-application research projects.
• Next steps in safety assurance regulation for pods.
• Objective, repeatable ADS validation methods.
• Value of innovation.
• An overview of EU safety assurance activities.
• Hear about the challenges.
Multiple-choice poll

Survey (1/2)

I have experience driving with different vehicles offering Level 2 automation

Yes  
55 %

No   
45 %
Survey (2/2)
Which global automaker has the best Advanced Driver-Assistance Systems (ADAS) currently available to purchase?

- Tesla
- BMW
- Volvo
- PSA
- Audi
- VW Touareg
- GM
- Honda
- I don’t know
- Can’t tell you yet...;)
- I don’t know
Survey (1/2)

Is this safety argumentation (simulation and evidence-based) relevant for your automated driving activity?

Yes 95%

No 5%
Survey (2/2)

Regarding your main current automated driving project: which effort do you approximately spend today on modelling traffic scenarios and/or test scenarios?

(1/2)

- <10%: 30%
- 10%-30%: 15%
- 30%-70%: 40%
- 70%-90%: 10%
Regarding your main current automated driving project: which effort do you approximately spend today on modelling traffic scenarios and/or test scenarios?

(2/2)

>90%  5 %
Multiple-choice poll

Survey (1/4)

Who is in your view responsible to ensure that systems on the market are safe?

Vehicle manufacturers 74%

Governments and legislating bodies 21%

Other 5%
Survey (2/4)

If other, please specify

- workshops after repairing?
- all together
- All together
How should the general public today know the performance of the automation they are buying?

1. Test drive in various weather and light conditions - 10%
2. Participate in training program - 57%
3. Read instruction manual - 0%
4. Try it out incrementally with more complex/risky traffic around them - 10%
5. It’s safe, they’ll learn - 10%
How should the general public today know the performance of the automation they are buying?

(2/2)

Other

14 %
If other, please specify

- certification assessment
- Thanks!
- It should be inherit in the design. To rely on e.g. training programs might create a very weak link.
- Standardised score system that explains the performance of the system/product they are purchasing
- Preferably part of an assistance driving license - it can be unsafe depending on your attitude to driving, the system, and so on.