

BMW HI-DRIVE EXPERIMENTS

User behaviour in repeated use

Demonstrator vehicle:

- BMW X5 Experience Cars
- Enabler: CAD Machine Learning - Driver Monitoring System
- Scope is to investigate the driver's interaction with AD over a longer period.
- Driving on urban motorways in Munich and on Autobahn close to Munich
- Safety driver on the co-driver seat
- Building up on L3Pilot experiments

To investigate the user behaviour over longer time periods, the participants drive the AD multiple times. By means of questionnaires, the changes in their mental model and attitude towards AD is analysed. In addition, the vehicle and the camera data are analysed to investigate how often and under which conditions the test person engage in secondary tasks. The first Hi-Drive study with 31 participants was conducted in autumn 2022. The second study on this topic starts May 2023; a third study is planned in autumn 2023.





The analysis of the first study by WIVW on the questionnaire data showed with respect to repeated usage, drivers.

- Drivers subjectively experience less situations as risky or dangerous over time.
- They agree more with the statement that the system behaved correctly.
- They would use the time more for secondary tasks (i.e., phone usage) and would also use the system more.

CONTACT

BMW

Susanne Reithinger

susanne.reithinger@bmw.de

PROJECT FACTS

Budget € 60 million | Funding € 30 million | Consortium 53 partners | Involvement 13 countries | Timeline July 2021 – June 2025 | Project coordinator Aria Etemad, Volkswagen Group Innovation, aria.etemad@volkswagen.de | LinkedIn company/hi-drive | Twitter @_HiDrive_ | www.hi-drive.eu



PARTNERS



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