



Virtual Final Event

interACT

Wrap up and conclusions

Anna Schieben

DLR e.V.

19 June 2020



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 723395. This material reflects only the author's view and the Innovation and Networks Executive Agency (INEA) and the European Commission are not responsible for any use that may be made of the information it contains.

5th Objective
Methodology for assessing
the quality of interaction



The challenge



1st Objective
Psychological models



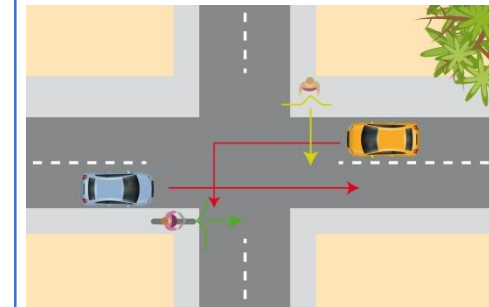
4th Objective
Novel HMI
elements



3rd Objective
CCPU & safety layer



2nd Objective
Intention recognition &
behavioural predictions



What we achieved:

- **Cross-cultural observations** and understanding for human-human interaction in mixed traffic resulting in **human interaction models**
- **Improvement of intention recognition algorithms** to identify relevant interaction situations
- Development of **Cooperation and Communication Planning Unit** and full integration in CRF vehicle
- Newly developed **eHMI and HMI** elements and prototypical implementation in CRF and BMW demonstrators
- **Evaluation** of project intermediate and final solutions with various evaluation methodologies such as Virtual Reality studies, simulator, test track and Wizard-of-Oz

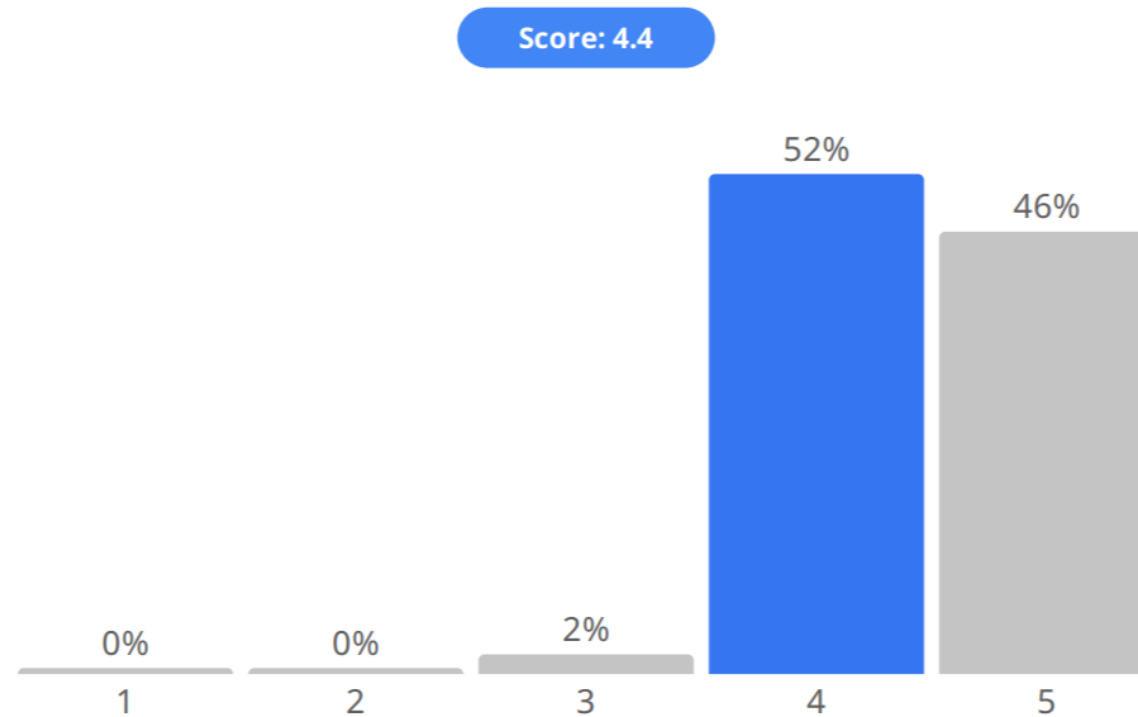
What we achieved:

- **Road safety:** Safety layer implemented in CCPU that avoid collisions and higher perceived subjective safety by eHMI and vehicle movement design
- **User-acceptance and ease-of use** of Automated Vehicles: User needs considered in the whole design process; Evidence that eHMI could increase subjective acceptance and satisfaction in interaction with AVs
- **Validation procedures for Automated Vehicles:** Reviewed and new evaluations methodes; Novel, on-the-fly techniques for manoeuvre and trajectory planning
- **Leadership of industry:** Higher TRL levels for several technical developments compared to the start of the project, e.g. eHMI components and CCPU



Please let us know what you thought of today's presentations? (5 is good!)

0 5 2



What was the most interesting result from today?

0 4 1



All material will be available on our website.

Visit:

www.interact-roadautomation.eu



3 years of interACT team work

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NatashaMerat @NatashaMerat · 16. Okt.

@RSS2017social workshop of @Europe_CAD work on AVs and VRUs went well, I believe. @markkula @interACT_EU @HFS_ITSLeeds



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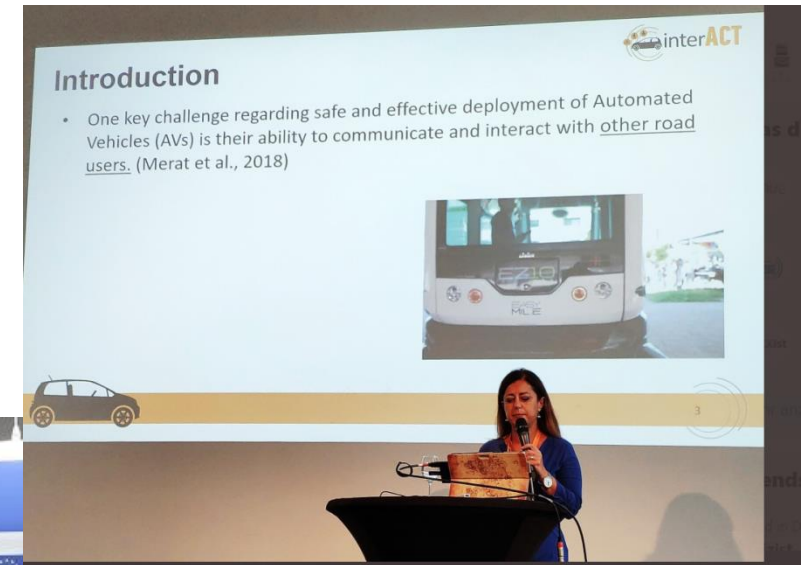
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interACT @interACT_EU · 22. Nov. 2018

During the workshop "Joint Workshop of European Projects on Automated Road Transport" on 21/11, Marc Wilbrink from @DLR_Verkehr & @interACT_EU led the session regarding "Relevant Use Cases for Autonomous vehicles". Thank you @AutomateEu for the wonderful organisation!



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*Designing cooperative
interaction of automated
vehicles with other road users in
mixed traffic*

1 APRIL 2020

near Munich, Germany
VERANSTALTUNGSFORUM
FÜRSTENFELD
Fürstenfeld 12, 82256 Fürstenfeldbruck

Registration will open soon!



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Thank you!

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