interACT – Project overview

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Integrating automated vehicles in mixed traffic

**Situation Today**

- On-board driver
- Other traffic participants

**Future situation: Automated vehicles in mixed traffic environments**

- On-board user
- Other traffic participants

Vehicle automation

interACT | GTB Forum 2018 | Den Haag (NL) | M. Kaup (HELLA)
Challenges of interACT

- The interACT project will address the following challenges:
  - **Safe integration of AVs** (SAE level 3 and above) into complex, mixed traffic environments.
  - Solutions for *expectation-conforming interaction* of AVs with other road users and on-board users.
  - **Increase in user acceptance** and ease-of use by appropriate AV design.
  - Increase the **overall safety and reliability** of AVs in mixed traffic environments.
The challenge

Achieve a safe, highly accepted and efficient integration of Automated Vehicles in mixed traffic environment

1st Enabler
Psychological models

2nd Enabler
Intention recognition & behavioural predictions

3rd Enabler
CCPU & safety layer

4th Enabler
Novel HMI elements

5th Enabler
Methodology for assessing the quality of interaction
Focus on Urban Use Cases – Result of WP1

- (Unregulated) Intersection

- Parking Space (Shared Space)
Cross-culture Observations – Task of WP2

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Project facts

• **Programme:** EU/H2020-ART04 - *Safety and end-user acceptance aspects of road automation in the transition period.*

• **Duration:** 36 months

• **Period:** May 2017 – April 2020

• **EU Funding:** 5,527,581 €

• **Coordinator:** Anna Schieben, DLR

• **Partners:** 8 industrial and academic partners from 4 European countries (Germany, Italy, Greece, UK)

• **Project Officer:** Georgios Charalampous (INEA)

• **US - EU twinning project:** AVIntent (NHTSA)
Project consortium
Project stakeholder

• Visit us on
  www.interACT-roadautomation.de

• Become Stakeholder of the project. Get in contact to our project coordinator:
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Thank you

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