The Consortium

DLR

HYUNDAI MOTOR GROUP EUROPEAN TECHNICAL CENTER

HELLENIC INSTITUTE OF TRANSPORT CERTH / HIT

dynniq

TRANSPORT & MOBILITY LEUVEN

MAP TRAFFIC MANAGEMENT

UNIVERSITAS Miguel Hernández de Elche

In addition, there are also 12 associated partners: Attikes Diadromes, Car2Car-Communication Consortium, DGT, ECTRI, EURECOM, Huawei, IKUSI, ITS Niedersachen, Region of Central Macedonia, Rijkswaterstaat, TRL, and University of Twente.

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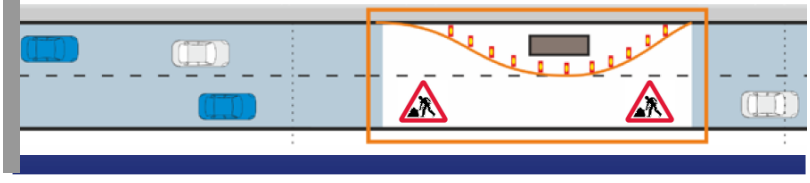
TransAID

Transition Areas for Infrastructure-Assisted Driving

www.transaid.eu



The Project in a Nutshell

TransAID develops and demonstrates traffic management procedures and protocols to enable smooth coexistence of automated, connected, and conventional vehicles.

There are several possible reasons for current and future vehicle automation systems to stop working, e.g. missing or wrong sensor inputs, high complexity situations, system failures, and system limitations.

What should a vehicle do when the automation system fails?

- Just relinquish control to the driver?
- Stop the vehicle where it is?
- Perform a more complex minimum risk maneuver according to the remaining options?

What will be the impact on traffic safety and efficiency?

What is going to happen when several vehicles have the same problems at the same spot?

Approach and Expected Results

- **Simulations** with vehicles in different levels of automation are performed
- Different approaches in terms of **hierarchical traffic management** are investigated
  - Help vehicle automations to find optimal solutions in case of minimum risk maneuvers and transitions of control
  - Help surrounding vehicles
  - Optimise traffic safety and efficiency
- Development of **new V2X message sets**
- Prototypical **field implementations**
- **Guidelines** and a **roadmap** for stakeholders (OEMs, road authorities, cities…) are provided for the stepwise introduction of road automation