

# TransAID

## - Twinning with CAMP - Welcome & Introduction

Julian Schindler  
Project Coordinator



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This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 723390





# Transition Areas for Infrastructure-Assisted Driving

Julian Schindler  
Project Coordinator



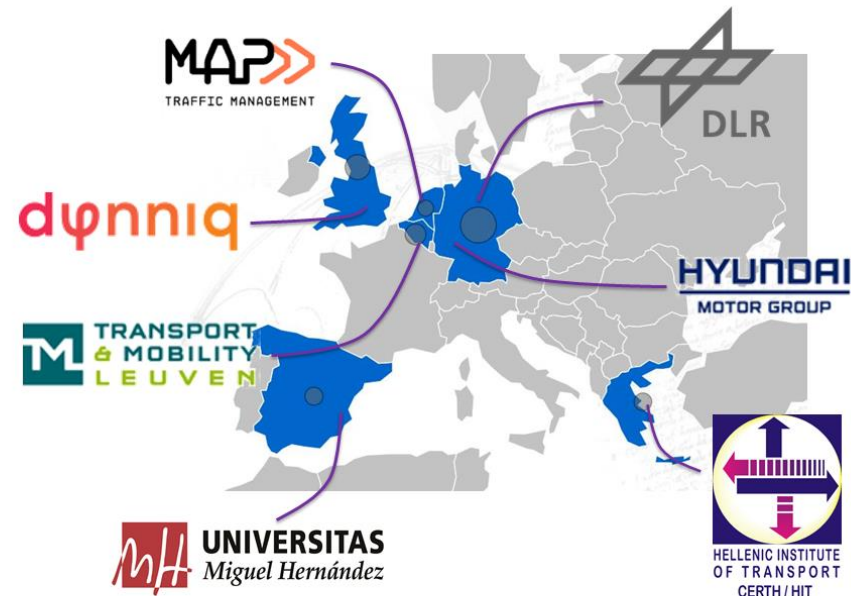
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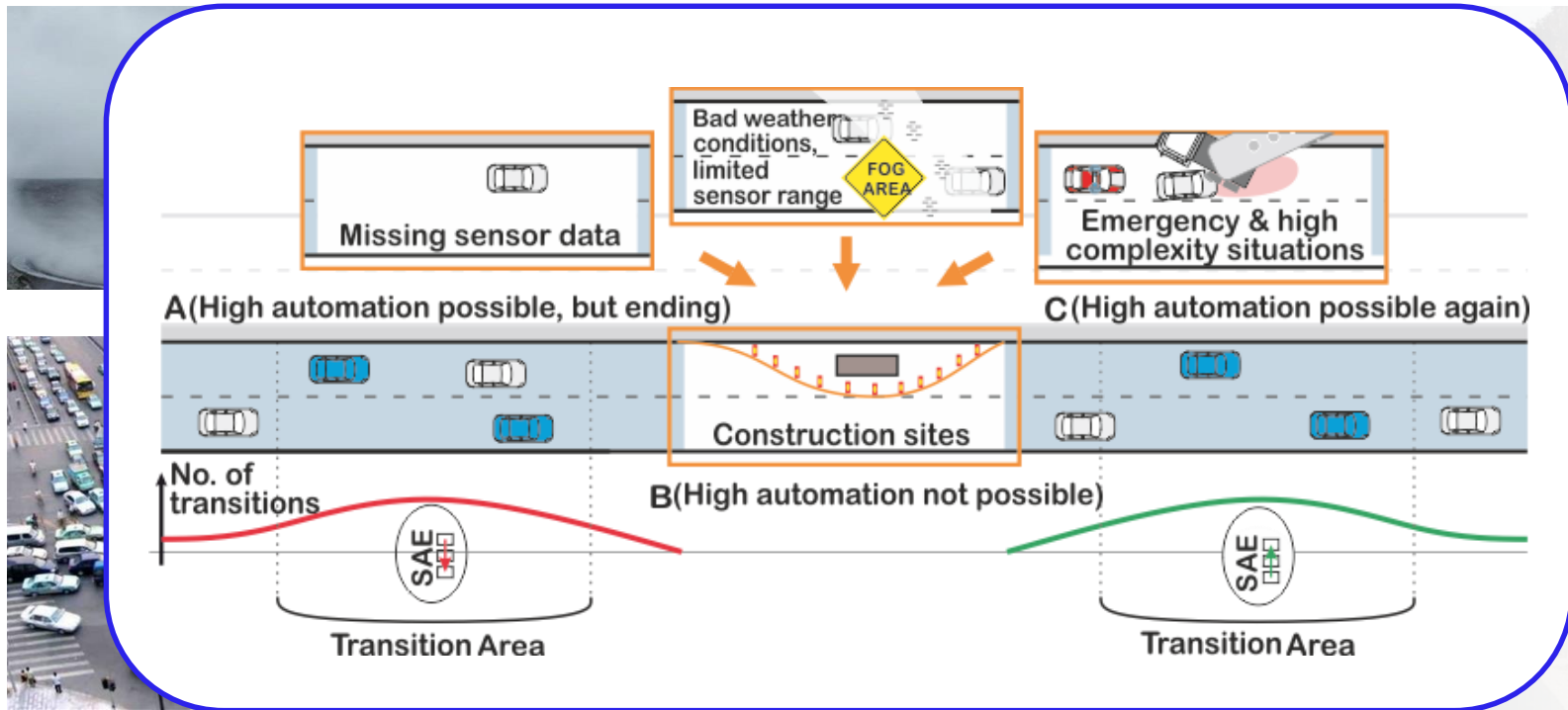
# Some general information

- About the EC call:
  - Horizon 2020 ART-05-2016 (Automated Road Transport)
  - Grant Agreement Nr.: 723390
- About the project:
  - Duration: 36 months
  - Start date: September 2017
  - Total budget: 3.8 M€
  - Consortium: 7 partners from 6 European countries
    - ICT infrastructure providers
    - Automotive industry
    - Academia
  - 12 associated partners



# What if...

- ...your automated vehicle is not able to solve the situation ahead?



- ...this happens not to single vehicles only, but to several?
- ...it always happens on the same location?

# TransAID Scope

## Simulation & Measures

- Perform simulations with different traffic mixes
- Estimate effects of automated driving
- Identify traffic management measures to enhance safety and efficiency



## Communication

- Traffic management measures need to be communicated to the vehicles
- Development of new ITS-G5 V2X message sets
- Also inform conventional vehicles



- Most promising solutions will be implemented in real world including:
  - Automated vehicles
  - Infrastructure
  - Communication



- Development of a Roadmap including guidelines for stakeholders (OEMs, road authorities, cities...)
- Standardization of messages

## Field Implementation

## Roadmap & Guidelines

# MAVEN

## Managing Automated Vehicles Enhances Network



*This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 690727*



# General information of MAVEN

## ❑ Full title

- ✓ Managing Automated Vehicles Enhances Network

## ❑ Project period:

- ✓ 01-09-2016 ~ 31-08-2019

## ❑ Funded by EC Horizon2020 Research & Innovation Programme

- ✓ Budget: EUR 3,149,661.25
- ✓ Nine partners from five countries: DE, NL, CZ, BE, UK

## ❑ Main goal

- ✓ Enhancing intelligent urban road transport network and cooperative systems for highly automated vehicles



Gemeente Helmond



MAVEN



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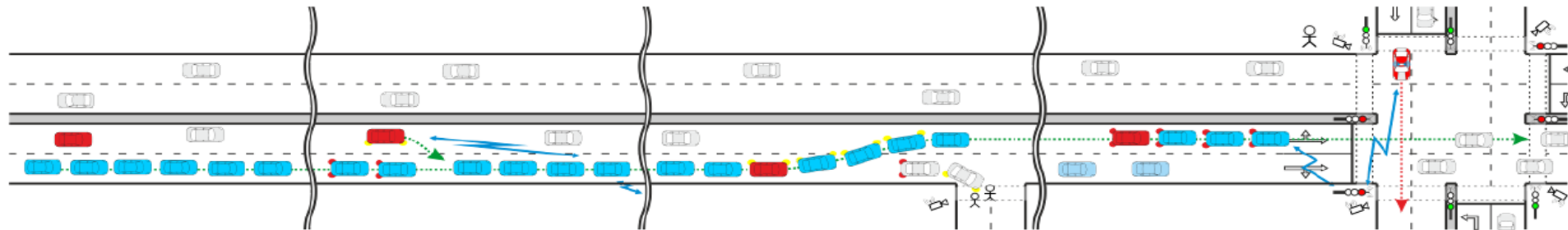
# MAVEN objectives and scope

MAVEN will develop management regimes for highly automated driving in urban areas.

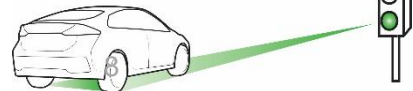
Road infrastructure will be able to monitor, support and orchestrate vehicle and VRU movements to guide highly automated vehicles at signalized intersections and corridors in urban areas.

Beyond the state-of-the-art of ADAS and C-ITS services like GLOSA, by adding cooperative platoon organization and signal plan negotiation to adaptive traffic light control algorithms.

Develop suitable enabling technologies, e.g. communication protocols, and test and validate via simulation and real-world prototype (ITS-G5 based).



MAVEN



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# Project overview

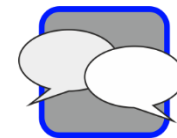


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# Workshop objectives

- Exchange of knowledge
- Investigation of parallels and differences
- Three focus areas
  - Traffic Management
  - V2X solutions
  - Simulation → Prototypes



# Agenda

presentation	presenter	duration
Welcome & introduction	Julian Schindler <i>German Aerospace Center</i> Scott Geisler <i>CAMP</i>	09:00-09:10
From connected manual to cooperative automated driving: the EU automotive roadmap for V2X	Michele Rondinone <i>(Hyundai METC)</i>	09:10-09:30
Overview of CAMP activities	Dr. Michael Shulman (CAMP President)	09:30-09:50
Management of CAVs through transition areas and signalized corridors	Meng Lu <i>(Dyngniq)</i> Sven Maerivoet <i>(Transport &amp; Mobility Leuven)</i>	09:50-10:20
Break	all	10:20-10:30
V2X solutions for infra assisted automated driving	Michele Rondinone <i>(Hyundai METC)</i> Alejandro Correa <i>(UMH University)</i>	10:30-11:00
Cooperative and Automated Driving: from modelling and simulation to prototypical implementation and testing	Evangelos Mintis <i>(Hellenic Institute of Transport)</i> Julian Schindler <i>(German Aerospace Center)</i>	11:00-11:30
Discussion	all	11:30-12:00
Lunch	all	12:00-13:00
CAMP TOSCo approach and results	CAMP	13:00-14:30
Discussion	all	14:30-14:45
Wrap up and next steps	Julian Schindler <i>(German Aerospace Center)</i> Scott Geisler / Mike Shulman <i>CAMP</i>	14:45-15:00