

Introduction to the MAVEN project

Robbin Blokpoel
Lead researcher at Dynniq



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

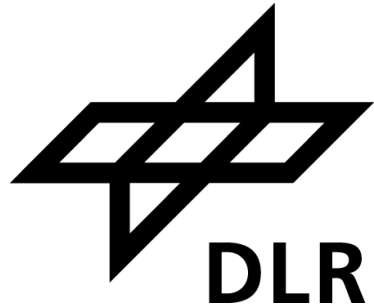
- ✓ Enhancing intelligent urban road transport network and cooperative systems for highly automated vehicles



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Who are we?



Gemeente Helmond



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Who are you?

- Public authority
- Automotive
- Industry
- Consultancy
- Academia
- General public



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Project objectives

Assumption

- ❑ Road infrastructure applications will still play a key role in future cooperative automated driving era

Main objective

- ❑ Increasing traffic efficiency and safety in urban areas by exploiting automated driving

Approach

- ❑ C-ITS infrastructure-based traffic management solutions for cooperative automated vehicles (CAVs) at signalized intersections (traffic lights) and intersection corridors
- ❑ V2X-based automated driving extensions for perception and planning
- ❑ Use of simulation verification as well as road experiments with CAV and infra prototypes (ETSI ITS G5-based)



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Agenda and project structure

10.00: Welcome and introduction to the MAVEN project

10.10: Key MAVEN innovations:

- Communication for vehicle automation and data fusion, *Michele Rondinone, Hyundai*
- Preparing the infrastructure for automated vehicles, *Robbin Blokpoel, Dynniq*
- Vehicle automation in signalized urban corridors, *Reza Dariani, DLR*

11.30: The integration of vehicle and infrastructure systems, *Julian Schindler, DLR*

12.00: Lunch and live demonstrations

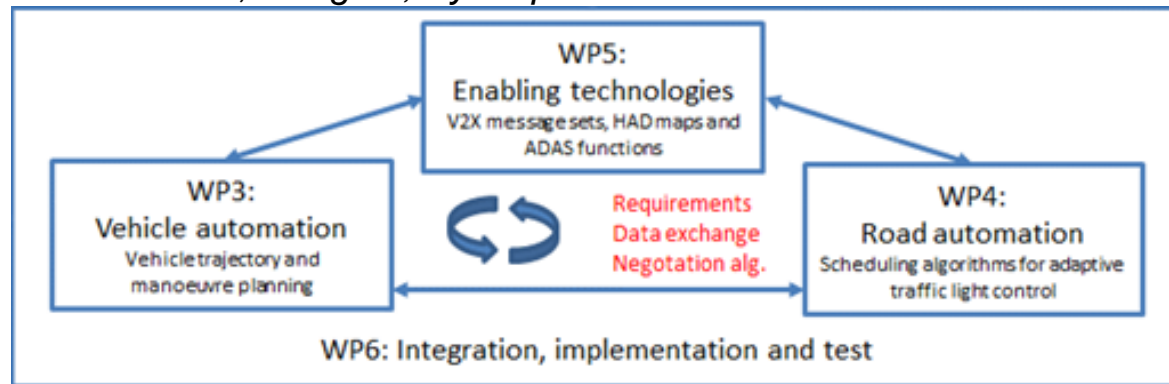
13.00: Transitioning towards vehicle automation from an urban traffic management perspective

- Some general requirements and recommendations from MAVEN, *Suzanne Hoadley, Polis*
- The Helmond transition approach, *Frank van den Bosch, Helmond municipality*
- Cities and Connected Autonomy - Gap Analysis, *Ben Morris, DGCities*

13.50: Impact assessment of scaling up automated driving, *Ondrej Pribyl, Czech Technical University*

14.40: Feedback and conclusions, *Meng Lu, Dynniq*

15.00: End



MAVEN



Thank you!

Questions?

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