



MAVEN final event

ITS Europe congress - 6/6/19



Experience the latest developments in automated driving & discuss the implications for urban traffic management

After three years of hard work the Managing Automated Vehicles Enhances Network (MAVEN) project is coming to an end. The project is excited to share its results in this final event that also offers a unique opportunity to experience its systems in real-life at the demo area of the ITS congress. MAVEN focussed on urban traffic management with automated vehicles and increases traffic efficiency by exploiting new possibilities of cooperation between vehicles and infrastructure. Additionally, new concepts of sharing of perception data between vehicles and infrastructure were developed to improve safety.

MAVEN implemented its concepts in a traffic simulation environment to achieve a large-scale impact assessment thereby enabling us to look into what a future with high equipment rates of automated vehicles would entail. With the development of its transition roadmap we looked at the implications of automated driving for the urban traffic manager. It aims to assist road operators in preparing for the transition phase from manual to automated driving.

Draft agenda

10.00: Welcome and introduction to the MAVEN project, *Robbin Blokpoel, Dynniq*

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*

11.40: 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 tbc*
- Gap analysis, *Ben Morris, DGCities tbc*

14.00: Assessing the impact of automated driving on urban traffic management, *Ondrej Pribyl, Czech Technical University*

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

15.00: End

Live demonstrations

In cooperation with the ITS Europe congress, MAVEN is hosting a demonstration on the roads near the automotive campus in Helmond. This demonstration will show the MAVEN **speed advice** and **lane advice** use cases that are directly followed by the automated vehicle without human intervention. We will also show our new **cooperative signal negotiation concepts** that enable automated vehicles to acknowledge speed and lane advice and indicate their intended turn direction.

From our control room near the demo area you can watch live how the infrastructure responds to this and takes signal optimisation to the next level. Since we only have access to the closed road demonstrations between 12.00 and 13.00, we have limited spots to experience the demo from the vehicle and we ask you to register separately for this demo. The roads are open on Monday and Tuesday if you wish to visit the MAVEN demo and we will show our use cases with a manually driven van with a higher passenger capacity.

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