

MAVEN

A roadmap to the traffic management systems of the future



Managing Automated Vehicles Enhances Network

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At a glance...

In the future, automated road transport in urban areas will be dependent on connectivity and information exchange between automated vehicles and the road infrastructure. Maven is preparing for this future by researching solutions that will provide:

- Management regimes for automated driving in urban areas
- Monitoring, support and orchestration of movements of road users to guide vehicles at signalized intersections
- Further enhancement for ADAS and C-ITS applications

Benefits for...

Infrastructure service providers



MAVEN is testing cost-effective technical solutions for the deployment of autonomous vehicles using real-world prototype vehicles and traffic simulation studies

Cities



MAVEN is helping road authorities and cities reach the understanding of the requirements for a smooth transition towards integrated, safe and sustainable automated vehicles and their impact

Automotive industry



MAVEN is developing C-ITS communication standard interactions between vehicles (V2V) and the infrastructure (V2I) to support platooning, negotiation and scheduling algorithms

Demonstration sites and simulations...



Helmond pilot

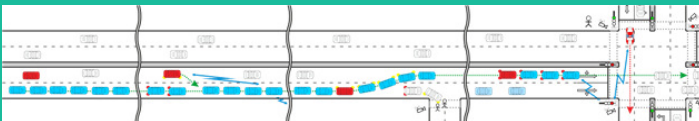
The pilot site in Helmond offers a state of the art infrastructure with all major intersections equipped with cooperative roadside units. Furthermore, the adaptive control algorithm ImFlow traffic control provides the opportunity to implement many different policies.

Braunschweig pilot

This pilot site offers the latest with respect to infrastructure detection as part of the Application Platform for Intelligent Mobility (AIM) test site. Stereo video detection combined with radar and hemispherical dome camera's enable the infrastructure to enhance the safety of automated driving.

Prague and Greenwich simulations

Simulations are essential for impact assessment of scaling up the MAVEN solutions. Therefore, in addition to simulations of the pilot sites, there are dedicated simulation networks of Prague and Greenwich, a borough in London. Each network has their own specific challenge and thus provides a good environment to evaluate MAVEN use cases such as platoon orchestration (e.g. initialisation, lane change, termination), Green Light optimal Speed Advice, enhanced queue modelling and green wave with platoon priority



MAVEN Partners



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