

Study Tour “Urban Traffic Management and Intelligent Transport Systems”

Helmond region, The Netherlands. 30-31 May 2016

Programme (DRAFT)



Visit the silicon valley of Traffic Management and Intelligent Transport Systems

The study tour offers a unique opportunity to experience a number of great innovations happening in the ‘silicon valley’ of Europe! For example the ‘road of the future’, the Van Gogh-Roosegaarde cycle path, the innovative traffic control centre and the ‘crossing of the future’. Local innovators and policy makers will share their experience and practices.

This study tour can be perfectly combined with a visit to the Grand Cooperative Driving Challenge and i-Game events: an experience of cooperative mobility and vehicles of the future. information about GCDC en i-Game can you find on the next page.

This study tour is organized by the CIVITAS Thematic Group on Transport Telematics, CIVINET Netherlands and Flanders & CIVITAS WIKI.

Objectives of the study tour

- To obtain insights in current developments and innovations
- To share and exchange (best) practices
- To visit some of the Dutch ground breaking innovations on ITS and traffic management



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Target audience

This study tour is relevant for:

- European professionals involved in urban traffic management policies and projects
- Members of the CIVINET Netherlands/Flanders network

How to participate?

Register via <http://www.civitas.eu/content/study-tour-urban-its-helmond-netherlands>.

Participation to this event is free of charge. Lunch and dinner are included, hotel at own expenses.

Agenda (draft, subject to changes)

12.00h	Lunch	
13.00h	Welcome and introduction	Gert Blom (City of Helmond)
	Presentation urban traffic management and ITS	Isabel Wilmink (TNO)
	Presentation and visit 'road of the future'	Patrick Megens (City of Oss)
19.30h	Diner	
	Visit Van Gogh-Roosegaarde cycle path	Bas Braakman (City of Eindhoven)
22.30h	Back to hotel	

09.00h	Visit innovative traffic management centre and various presentations about <ul style="list-style-type: none">- Traffic management centre- Cooperative intersection- Flow control with mobile apps	Rijkswaterstaat TNO DTV Consultants
	Visit 'cooperative intersection'	
	Concluding words and lunch	Gert Blom (City of Helmond)
13.15h	End study tour	



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Possibilities for travel reimbursement

The study tour is free of charge and open to all professionals working in the urban ITS and traffic management domain. For a limited number of participants CIVITAS offers opportunities for reimbursement of travel and accommodation expenses. Priority will be given to city representatives (up to 2 participants per city). Please contact Teije Gorris (learningcentre@civitas.eu) for this.

The sites

Helmond in general

With a population of around 90,000, Helmond is one of the five largest cities in the Dutch province of Noord-Brabant. It is a historical city, with an illustrious past in the textile and metal industry. With its distinguished architecture and distinctive residential areas, Helmond is a town of many surprises. It is brimming with the energy of a European centre of innovation: Brainport. Helmond is also at the heart of De Peel, home to one of the Netherlands' best-loved national parks.

Brainport is home to a major part of the Dutch automotive sector. The High Tech Automotive Campus is an important knowledge and innovation centre, within a cluster with a strong international focus. The campus is the hotspot for smart mobility and (academic) automotive education. The city is a living laboratory, with smart traffic systems, intelligent vehicles that can communicate with each other and their surroundings, hybrid trucks and electric cars.



Road of the future



Nowadays, our chosen modes of transport not only take us from point A to point B, but they make our lives easier and our journeys more pleasant. Our infrastructure must facilitate this. The Smart Highway concept that Heijmans devised together with artist Daan Roosegaarde is one of the most famous ideas on the world stage. This innovative concept creates an entirely new mobility experience for drivers, cyclists and pedestrians.

The Road, N329, is built to be CO₂-neutral. Along the road fifty sunflowers will also be placed filled with solar panels.

The N329 will have more futuristic features, including green lights next to the road. They're there partly as orientation, but will also make the green wave visible. If you follow the speed of the lights, you are guaranteed to have a green light at the traffic lights.



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Roosgaarde cycling path

This cycle path has been constructed by Heijmans from a design by Daan Roosegaarde and forms part of the Van Gogh cycle route in Brabant.

After dark visitors will be amazed by a design of light and colour, inspired by the world-famous painting The Starry Night by Vincent van Gogh.

The Van Gogh-Roosegaarde cycle path is based on the light-emitting technology of Smart Highway, the concept for intelligent, interactive roadways and joint innovation program of Heijmans and Studio Roosegaarde. This unconventional collaboration brings the best of two very different worlds together and creates new solutions for the mobility of tomorrow. Central to the concept are the themes of sustainability, safety and experience. These are developed into the latest technologies in the field of energy and light.



Innovative traffic management centre

The innovative Traffic Control Centre, an experimental and development area within the South Netherlands traffic centre. The innovative Traffic Control Centre comprises the Innovation Desks and the Innovation Lab. Unique to the Traffic Control Centre is the possibility for parties to test and develop their smart mobility solutions in the Innovation Desks in a real-life environment: on a real road and, above all, on a real network. This makes evident straightaway what the effect of the solution is in practice. The kinds of mobility solutions that come to mind include new mobility services, systems, data connections, information provision, work processes, regulation scenarios, traffic guidance, in-car technologies and the like.

In addition to the Innovation Desks is the Innovation Lab, the incubator of Smart Mobility, a place where the Triple Helix parties (industry, government and research) can meet and share knowledge. Temporary workplaces are available and the facilities include networking, brainstorming, serious gaming and giving demos. The Innovation Lab is there to prepare experiments, develop services and provisions, and to enable experiences to be shared with and gained from people in the field.





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Cooperative intersection



The intersection is provided with a radar which the presence of cyclists detect. This information is transmitted via a dedicated Wi-Fi network. The approaching car picks up the signal, before the cyclists are visible to the driver and then the brakes works automatically.

Expand your stay with a visit to GCDC

This study tour can be perfectly combined with GCDC en i-Game. There are demo days for experts and public on May 28th-29th 2016. The Grand Cooperative Driving Challenge (GCDC) is one of the highlights of the i-GAME project, a European research project, supported by the European Commission, in which the next step towards the cooperative automation of vehicles.

The GCDC 2016 is an innovative and competitive demonstration taking place on the A270 highway between Helmond and Eindhoven, in which 10-15 teams compete with each other. The demonstration is a combination of vehicle automation (making it self-driving) and vehicle-to-vehicle and vehicle-to-infrastructure communication.

The i-GAME research project and the GCDC 2016 take cooperative automation of vehicles to the next level and help speeding-up real-life implementation. The underlying goal is to boost traffic safety and traffic flow and reduce fuel consumption and emissions.

Saturday 28 May, the first demonstration day of the GCDC, is particularly aimed at the general public. Experts from TNO, Eindhoven University of Technology and ANWB will inform the public as to make them more aware of the benefits of cooperative driving. The GCDC 2016 coincides with the last day of the Dutch Technology Week. At the Automotive Campus everyone can see, feel and experience how promising and stimulating it is to contribute to technologies that change the world. Young and old can learn all about future mobility by means of futuristic vehicle demos and fun activities such as designing your own car, creating digital roadmaps or performing experiments on a Technobus.

Sunday 29 May - Mobility experts day | 13.30-18.00 hrs.

Where as the first GCDC demonstration day will be focused on the general public as part of the Dutch Technology Week, the second GCDC demonstration day, Sunday 29 May, mainly focuses on international and national mobility experts, students and press. A special programme has been compiled including a series of connected and automated driving demos, futuristic electric and solar vehicles, live GCDC demonstrations on the A270 highway and a tour around the Automotive Campus including visits to the Traffic Centre and Innovation Centre. The programme is rounded off with a network drink and an awards ceremony for the winning teams of the GCDC 2016.

More information about GCDC and i-Game: www.gcdc.net.



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Practicalities

- As a participant you have to book your own hotel. We recommend the following hotel: *Golden Tulip Hotel West-Ende*.
- Transport to the different visits is arranged
- More information will follow.