



Grand Cooperative Driving Challenge

INVITATION

28-29 May 2016 - Automotive Campus Helmond - A270

GCDC Demonstration days

30 May 2016 - Eindhoven University of Technology

i-GAME Congress

Consortium partners:



innovation
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Technische Universiteit
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VIKTORIA



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Grand Cooperative Driving Challenge – GCDC 2016

The Brainport Region in the Netherlands prepares itself for an international event in the field of cooperative driving: the Grand Cooperative Driving Challenge 2016. This event is one of the highlights of the i-GAME project, a European research project supported by the European Commission. This project takes cooperative automation of vehicles to the next level and helps speeding-up implementation. The GCDC 2016 is followed by an international congress and master class at the Eindhoven University of Technology.

The GCDC 2016, taking place from 28-29 May, is an innovative and competitive demo event on the A270 highway between Helmond and Eindhoven, in which 10-12 European teams compete with each other. The challenge is a combination of vehicle automation (making it self-driving) and vehicle-to-vehicle and vehicle-to-infrastructure communication. The GCDC 2016 is organized to provide a basis for cooperative automated driving in an international context.

The challenge

The results of the i-GAME research project will be made available to the teams so that they can be demonstrated, according to three scenarios:

1. Merging vehicles or joining a line of vehicles, known as platoons.
2. Automated crossing and exiting a junction.
3. Automated space-making for emergency vehicles in a traffic jam (not part of the competition).

Apart from the communication technology itself, it is the application in the vehicles that is key to enabling good maneuverability through automated acceleration, braking and steering. This edition, judging will be based on: teamwork, mutual communication and the results of each team in the different traffic scenarios.

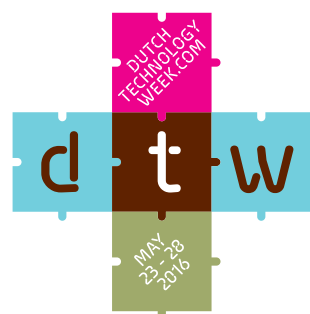


Demonstration days at the Automotive Campus in Helmond

Saturday 28 May - Public day 11.00-19.00 hrs.

[no pre-registration required, registration possibilities for tours on-site]

Saturday 28 May is particularly aimed at the general public. Experts from TNO, Eindhoven University of Technology and ANWB will inform the public about the benefits of cooperative driving. This first demonstration day 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 vehicles 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. [pre-registration required]

Whereas 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. For invitees, a special afternoon programme has been compiled:

13.00 - 13.30 hrs. Walk-in of guests

13.30 - 14.00 hrs. Plenary opening by GCDC 2016 hosts

- Minister Schultz -van Haegen tbc
- Commissioner Oettinger, Directorate Digital Economy and Society EC tbc
- Elly Blanksma, Mayor City of Helmond tbc

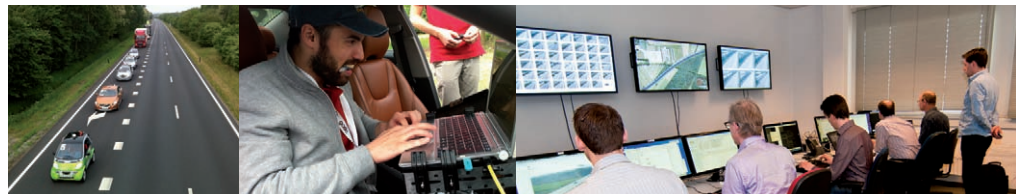
14.10 - 15.10 hrs. GCDC 2016 demonstrations: see the teams at work

Two live GCDC demonstrations on the A270 highway. Invitees are able to watch the teams at work from a large gallery and by camera images from demonstrations further down the road. Experts from TNO and TU/e will explain the demonstration scenarios and the technologies used.

15.15 - 15.45 hrs. Automated driving with Use of Cooperative Architecture and capabilities on the A58

Showing scenarios of cooperative automated driving on the A58 motorway, using the cooperative architecture and services of the Shockwave jams A58 (Spookfiles) project. This fully ETSI ITSC compliant architecture is service and use case independent, and can therefore be used for cooperative automated driving as well.

After the 'From connected to cooperative automated driving' demonstrations, invitees will split up in smaller groups to make a tour around the Automotive Campus.



15.45 - 17.15 hrs. Tour around the Automotive Campus including a variety of demonstrations:

- GCDC 'Emergency' demonstrations: automated space-making for emergency vehicles in a traffic jam;
- Demonstrations from student teams TU/e (Solar car Stella Lux, Electric motorcycle STORM, Electric formula I car, URE);
- Traffic innovation centre with realtime connection to the GCDC control room at TASS International: explanation of what happens in the control room;
- Traffic Centre Rijkswaterstaat;
- Automated Driving demo from TASS International.

17.15 - 18.00 hrs. Network drink GCDC 2016 and announcement of the winning teams

Chairman of the jury will explain the judging process for the GCDC 2016 followed by an awards ceremony.

i-GAME Congress & Master class at the Eindhoven University of Technology

Monday 30 May - International i-GAME congress 09.30-17.30 hrs. [pre-registration required]

Also part of the i-GAME research project is an international congress at the Eindhoven University of Technology for policy makers of national, regional and local authorities, the European Commission and representatives of research institutes, car manufacturers, suppliers of the automotive industry and solution vendors. The congress will focus on presenting the scientific and technological results of the i-GAME project, embedded in a comprehensive programme of adjoining topics such as safety and legal aspects, standardization and certification challenges, effects of C-ITS and trade-off perspectives, public acceptance and involving end-users in the development and deployment of cooperative mobility.



Tuesday 31 May - Master class on cooperative mobility 09.15-14.00 hrs. *[pre-registration required]*

On Tuesday 31 May, a half-day master class for students, young professionals and researchers will be organized emphasizing the importance of student involvement in promoting innovation. The master class also covers topics like trends in automated driving, creating testbeds for cooperative mobility and deliverables and lessons learned in the i-GAME project.


How to register?

Are you interested in visiting the GCDC 2016 demonstration days, the international i-GAME congress or the master class on cooperative mobility, please check the GCDC website **www.gcdc.net** for registration. The website also contains more information on the i-GAME project, i-GAME events, sponsors, teams, venues and practical information on travel and accommodation.

For people visiting the GCDC 2016 on Sunday and wanting to stay for the congress on Monday, a special network dinner will be organized on Sunday evening.

This invitation is a joint initiative of: Connecting Mobility, DITCM innovations, Province of Noord-Brabant, the 'Beter Benutten' ('Optimising Use') programme, Automotive NL, Brainport Development, City of Helmond and the consortium partners TNO, Eindhoven University of Technology, IDIADA and Viktoria ICT.

Sponsors & supporters i-GAME events

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REGISTER NOW! For more information www.gcdc.net



Website: www.gcdc.net Twitter: @iGAME2016 Youtube: www.youtube.com/thegcdc