



Final conference

Deliverable 63.7

DOI: 10.26323/UDRIVE_D63.7



EUROPEAN COMMISSION

SEVENTH FRAMEWORK PROGRAMME FP7-SST-2012.4.1-3 GA No. 314050

eUropean naturalistic Driving and Riding for Infrastructure and Vehicle safety and Environment

| Deliverable No. | UDRIVE D63.7 | |
|---------------------|---|------------|
| Deliverable Title | Final conference | |
| Dissemination level | Public | |
| Written By | Andrea Hrzic (ERTICO) | 28-06-2017 |
| Checked by | Ellen Wilschut (TNO) | 29-06-2017 |
| Approved by | Marika Hoedemaeker (TNO) QA manager | 30-06-2017 |
| | Nicole van Nes (SWOV) Project Coördinator | |
| Status | Final | |

Please refer to this document as:

Hrzic, A. (2017). *Final conference*. UDRIVE Deliverable 63.7. EU FP7 Project UDRIVE Consortium. https://doi.org/10.26323/UDRIVE_D63.7

Disclaimer:



UDRIVE is co-funded by the European Commission, DG Research and Innovation, in the 7th Framework Programme. The contents of this publication is the sole responsibility of the project partners involved in the present activity and do not necessarily represent the view of the European Commission and its services nor of any of the other consortium partners.





Executive Summary

UDRIVE is a large-scale European Naturalistic Driving study that aims to collect in-depth knowledge about the behaviour of car drivers, truck drivers and motor riders in order to make road traffic safer and more environmentally friendly.

D63.7 "Final conference" is a report of the project final conference – the UDRIVE Experience – which took place on 7 June 2017, in the Hague, the Netherlands. The final event was organised in conjunction with the 6th International Naturalistic Driving Research Symposium. The goal of the final conference was to present the UDRIVE was results to an audience of international researchers, public authorities and other stakeholders. A vehicle demonstration of an equipped car and motorcycle, was also organised to provide participants with the real feel of the project and to introduce them to naturalistic driving studies.

About 150 international participants from all over the planet attended the final conference. In order to make the final event engaging and interactive, the final results were presented to the public in a form of a quiz.

This deliverable contains a report of the conference, a list of participants, list of participating organisations, agenda of the event etc.



1 Table of Contents

| EXECUTIVE SUMMARY | 4 |
|--|----|
| 1 TABLE OF CONTENTS | 5 |
| 2 INTRODUCTION | 6 |
| 2.1 About UDRIVE | 6 |
| 2.2 Objectives of D63.7 "Final conference" | 6 |
| 3 PROGRAMME | 7 |
| 3.1 Agenda | |
| 3.2 Summary | 8 |
| APPENDIX A – LIST OF PARTICIPANTS | 10 |
| APPENDIX B – LIST OF ATTENDING ORGANISATIONS | 14 |
| APPENDIX C – PHOTOGRAPHS | 16 |



2 Introduction

2.1 About UDRIVE

Road transport is indispensable for the exchange of goods and persons, but at the same time has severe negative consequences, among others for road safety and environment. To meet the European road safety and emission targets, a next generation of measures is needed based on a far more in-depth understanding of road user behaviour.

UDRIVE is the first large-scale Naturalistic Driving study in Europe and aims to provide a first step toward this in-depth knowledge in a number of areas, as well as data for further research. Cars, trucks and powered two-wheelers (motorcycles and scooters) will be equipped with sensors and cameras and will for more than a year and provide continuous and detailed information about the driver and the vehicle in interaction with other road users. This will result in a wealth of information about everyday trips on European roads in 6 different countries.

The UDRIVE integrated project started in October 2012, and after several preparatory activities, a first thematic workshop was organized on March 12, 2013 to discuss the UDRIVE research questons with the potential stakeholders. During the spring of 2017 4 regional workshops were organised in each of the OS with the goal to promote the UDRIVE project to local stakeholders and in particular to inform them about the project methodology, give them a taste of the project results with the preliminary analysis results and to promote the final event. The final event took place on 7 June in the Hague, the Netherlands and it was organised in conjunction with the 6th International Naturalistic Driving Research Symposium. The final results of the four work packages were presented at the event, while a vehicle demonstration of an equipped car and motorcycle took place in parallel.

2.2 Objectives of D63.7 "Final conference"

Deliverable D63.7 is a report of the UDRIVE final event – the UDRIVE Experience – which took place on 7 June 2017 in the Hague, the Netherlands. The main goal of the final conference was to promote the project's final results after 3 years of work and 18 months of data collection in 6 different operation sites. More specifically, promoting the final results is an opportunity for the project to exploit the research made and pursue the idea of creating a database with over 80 000 hours of data collected which could essentially contribute to futher research or regulation in the field of road safety and sustainability.



3 Programme

3.1 Agenda

| 08:30 | Registration & coffee | |
|------------------|--|--|
| 09:30 | UDRIVE – The Project | |
| | *Project Coordinator – Nicole van Nes | |
| | *Chair advisory board – Fred Wegman | |
| | *EU Project Officer William Bird | |
| 10:00 | UDRIVE – Introducing the Key Results | |
| | | |
| 11:30 | Coffee break | |
| 12:00 - 16:00 | UDRIVE – TheExperience: special sessions á la Carte | |
| | Dive deeper in the results on specific topics that are most relevant to your work. Learn more and discuss the implications for research, industry and policy. You can participate in 4 different sessions, before and after the lunch break. | |
| | Vehicle demonstration | |
| | How does the UDRIVE Data Acquisition System (DAS) look like and how is it intergrated in the vehicle? | |
| | Demonstration of UDRIVE database | |
| | What is recorded and how can the data be accessed for further analyses? | |
| | Risky driving | |
| | How often do people speed and do they wear their seat-belt? | |
| | Distraction | |
| | What distracting activities do drivers undertake, how often, when and where? | |
| | Vulnerable road users | |
| | Do drivers see cyclists and pedestrians? How do they adapt their speed and looking behaviour? Is there a difference in looking behaviour between countries? | |
| | • Eco-driving | |
| | How eco friendly is the driving behaviour across Europe? Is there a relation between eco-driving and personal driving style, infrastructure, congestion and vehicle technology? How does eco-driving relate to safe driving? | |
| | Powered Two Wheelers | |
| | How fast do they ride and how do they adapt their speed to the situation? | |
| | • Trucks | |
| | How often do truck drivers actually check their blind spot and how often are they involved in distracting activities? | |
| 16:00 | UDRIVE – What's next? | |



| | Reflections from different perspectives and views on future steps |
|-------------|---|
| 16:30 - | Reception |
| 18:00 | |
| | Evening Programme |
| 19:00 | Speed-dating in Europe's first Ferris wheel over the sea. |
| | With whom would you like to share a ride on this Ferris wheel? |
| 19:15-21:00 | Dutch Pancake Experience on the North Sea |

3.2 Summary

Around 150 participants attended the final event and participated in the interesting rotating sessions covering different naturalistic driving topics such as risky driving, distraction, cyclists and pedestrians, eco-driving, motorists and trucks. Two UDRIVE equipped vehicles – a motorcycle and a car – showed the participants the UDRIVE Data Acquisition System (DAS) and how is it intergrated in the vehicles.

The participants were very enthusiastic about the whole event which kicked off with keynote speeches by the project coordinator Nicole van Nes, Chair advisory board – Fred Wegman and project officer William Bird. The project results were presented in a form of a interactive pub quiz where the main results were shared as questions to the public by UDRIVE experts. The following topics were included:

- Recruitment of participants
- Data Acquisition System
- Collected data
 - o Volume
 - o Per vehicle type
 - Per country
 - Analysis efforts
- Results
 - Secondary tasks
 - o Interaction with vulnerable road users (cyclists & pedestrians)
 - Truck driving
 - o Eco-driving
 - o Headway
 - o Speeding
 - o Industrial interest

The afternoon "a la carte" programme was a great way to accommodate cosy and interactive sessions on different topics. To allow each participant to learn more about topics they were particularly interested in, this element in the programme consisted of a carousel of several parallel sessions. Also, this allowed for smaller groups and more in-depth discussions. The day concluded with reflections and the views on the bright future of the project including thoughts on the data use after the project. Keynote speeches by Ann M. Brach, the Director of the Technical Activities



Division at the Transportation Research Board (TRB) and David Shinar, Professor Emeritus of Ergonomics and Human Factors Engineering at Ben Gurion University of the Negev, Israel wrapped up the succesfull day of interesting presentations.



Appendix A – List of participants

| First name | Last name | Organisation |
|------------|---------------|---|
| Veneta | Vassileva | ACEM |
| Daisy | Beijersbergen | Achmea |
| Adriaan | Heino | Achmea |
| Toshihisa | Sato | AIST |
| Kevin | Liebrecht | ANWB |
| Robin | Maatjes | ANWB |
| Arjan | Rensen | Australian Road Research Board |
| Martin | Winkelbauer | Austrian Road Safety Board |
| Andrea | Leitner | AVL List GmbH |
| Kevin | Diependaele | Belgian Road Safety Institute |
| David | Shinar | Ben-Gurion University of the Negev |
| Lisa | Precht | BMW AG |
| Erik | Lubberding | Buck Consultants International |
| Jacqueline | Mathey | CBR |
| Martina | Hendrix | CBR |
| Jean Marc | BERSAC | CEESAR |
| Fabien | CROES | CEESAR |
| Lionel | BOULOMMIER | CEESAR |
| Karla | QUINTERO | CEESAR |
| Philippe | CHRETIEN | CEESAR |
| Clement | VAL | CEESAR |
| Dimitris | Margaritis | Centre for Research and Technology Hellas |
| Ales | Zaoral | Centrum Dopravniho Vyzkumu, v.v.i. CDV |
| Jonas | Bärgman | Chalmers University of Technology |
| Jordanka | Kovaceva | Chalmers University Of Technology |
| Erik | Svanberg | Chalmers University of Technology |
| Josef | Krems | Chemnitz University of Technology |
| Katja | Schleinitz | Chemnitz University of Technology |
| Maria | Kreusslein | Chemnitz University of Technology |
| Helen | Loeb | Children Hospital of Philadelphia |
| llse | Harms | Connecting Mobility |
| LUCAS | MORILLO | CTAG |
| Bram | Bakker | Cygnify BV |
| Vaclav | Jirovsky | Czech Technical University in Prague |
| Huib | De Ridder | Delft University of Technology |
| Haneen | Farah | Delft University of Technology |
| Dariusz | Cieslar | Delphi Poland S.A. |
| Fabian | Utesch | DLR |
| Florent | Pignal | Drust |
| Ana | Bakker | Dynamic Research Inc |
| Andrea | Hržić | Ertico |



| Julie | Castermans | ERTICO - ITS Europe |
|------------------|---------------|--|
| Maxime | Flament | ERTICO-ITS Europe |
| William | Bird | European Commission |
| Roland | Schindhelm | Federal Highway Research Institute (BASt) |
| Benedikt | van den Boom | FIA |
| Óscar | Martín | Fundación CIDAUT |
| Eric | Stemmler | German Aerospace Center e.V. |
| Matthijs | Dicke | Goudappel Coffeng |
| Cäcilia | Von Lienen | Hochschule für Technik und Wirtschaft |
| | | Dresden |
| Tsukasa | Sugino | Honda Research Institute Europe GmbH |
| Valentin | Nedkov | ICOM Ltd. |
| Helene | Tattegrain | IFSTTAR |
| Lars | Hergers | In Person |
| Miguel | Garcia Garcia | Innov+ and GIPSA-lab/Université Grenoble |
| - · · · · | | Alpes |
| Fridulv | Sagberg | Institute of Transport Economics |
| Rick | Schotman | Keypoint Consultancy |
| Anne | Guillaume | LAB |
| Nicolas | Bertholon | LAB Renault PSA |
| Laurette | Guyonvarch | LAB Renault PSA |
| Guido | Band | Leiden University |
| Evita | Papazikou | Loughborough University |
| Andrew | Morris | Loughborough University |
| Ruth | Welsh | Loughborough University |
| Sherif | Ishak | Louisiana State University |
| Edward Shinji | Otani | Mazda North American Operations |
| Robbert | Verweij | Ministerie van Infrastructuur en Milieu |
| Jude | Charlton | Monash University Accident Research Centre |
| Sjaan | Koppel | Monash University Accident Research Centre |
| George | Yannis | National Technical University of Athens |
| Ruben | Prins | Netherlands Enterprise Agency |
| Takayuki | Kondo | Nissan Motor Co., Ltd. |
| Ofra | Bigger | OR YAROK |
| Tsippy | Lotan | OR YAROK |
| Marco | Schreuder | Rijkswaterstaat |
| Paul | Schepers | Rijkswaterstaat |
| Tom | Alkim | Rijkswaterstaat |
| Michel | Lambers | Rijkswaterstaat WVL |
| Jacek | Malasek | Road and Bridge Research Institute |
| Matthias | Moerbe | Robert Bosch GmbH |
| Helena | Gellerman | SAFER |
| Etsuo | Horikawa | Saga University |
| Gianluca | Di Flumeri | Sapienza University of Rome |
| Frank | Anema | SD-Insights |



| Jonny | Kuo | Seeing Machines Ltd. |
|-----------|------------------|--|
| Angela | Baker | Shell |
| Peter | Van Duijvenbode | Siemens |
| Marjan | Hagenzieker | SWOV Institute for Road Safety Research |
| Ragnhild | Davidse | SWOV Institute for Road Safety Research |
| Mike | Schroten | SWOV Institute for Road Safety Research |
| Ellen | Van der Hijden | SWOV Institute for Road Safety Research |
| Ritwik | Swain | SWOV Institute for Road Safety Research |
| Peter | De Graaff | SWOV Institute for Road Safety Research |
| Simone | Wesseling | SWOV Institute for Road Safety Research |
| Rob | Eenink | SWOV Institute for Road Safety Research |
| Peter | van der Knaap | SWOV Institute for Road Safety Research |
| Nicole | Van Nes | SWOV Institute for Road Safety Research |
| Reinier | Jansen | SWOV Institute for Road Safety Research |
| Michiel | Christoph | SWOV Institute for Road Safety Research |
| Maura | Van Strijp - | SWOV Institute for Road Safety Research |
| | Houtenbos | |
| Tineke | Togni | SWOV Institute for Road Safety Research |
| Fred | Wegman | SWOV Institute for Road Safety Research |
| Divera | Twisk | SWOV Institute for Road Safety Research |
| Alexandra | Harel | The Ran Naor Foundation |
| Rob | Aarse | TLN |
| Maartje | De Goede | TNO |
| Gerdien | Klunder | TNO |
| Lucie | Schotman | TNO |
| Veerle | Heijne | TNO |
| Marika | Hoedemaeker | TNO |
| Rino | Brouwer | TNO |
| Giancarlo | Caccia Dominioni | Toyota Motor Europe |
| Florent | Garnier-Follet | Toyota Motor Europe NV/SA |
| R. | Weijers | Transdev |
| Ann | Brach | Transportation Research Board |
| Felix | Dreger | TU Delft |
| Jork | Stapel | TU Delft |
| Bart | Van Arem | TU Delft, Civil Engineering and Geosciences, |
| Tibor | Petzoldt | TU Dresden |
| Paul | Haverkamp | TVM verzekeringen |
| Ernst | Verschragen | Uniresearch BV |
| Yvonne | Barnard | University of Leeds |
| Rashed | Ismaeel | University of Leeds |
| Oliver | Carsten | University of Leeds |
| Hilal | Al-Libawy | University of Liverpool |
| Shan | Bao | University of Michigan |
| Ann | Williamson | University of New South Wales |
| Raphael | Grzebieta | University of New South Wales |



| Martina | Risteska | University of Toronto |
|-----------|------------------|---|
| Birsen | Donmez | University of Toronto |
| Arie P. | Van den Beukel | University of Twente |
| Pedro | Valero | University of Valencia |
| Mohamed | Ahmed | University of Wyoming |
| Gildas | THIOLON | VEDECOM |
| Annie | BRACQUEMOND | VEDECOM |
| Laurent | BONIC | VEDECOM |
| Marilena | Di Stefano | VicRoads |
| Jon | Antin | Virginia Tech Transportation Institute |
| Suzanne | Lee | Virginia Tech Transportation Institute |
| Cameron | Rainey | Virginia Tech Transportation Institute |
| Alejandra | Medina-Flintsch | Virginia Tech Transportation Research Plaza |
| Fabio | Forcolin | Volvo GTT |
| Elham | Pirnia | Volvo GTT |
| Tania | Dukic Willstrand | VTI- Statens väg- och |
| | | transportforskningsinstitut |
| Pascal | Nanninga | XLLease |
| Ralf | Timmers | XLLease |
| Ralph | De Brouwer | XLLease |



Appendix B – List of attending organisations

| ACEM | Innov+ and G |
|---|-----------------|
| Achmea | Institute of Tr |
| AIST | Keypoint Con |
| ANWB | LAB |
| Australian Road Research Board | LAB Renault F |
| Austrian Road Safety Board | Leiden Univer |
| AVL List GmbH | Loughboroug |
| Belgian Road Safety Institute | Louisiana Stat |
| Ben-Gurion University of the Negev | Mazda North |
| BMW AG | Ministerie vai |
| Buck Consultants International | Monash Univ |
| CBR | National Tech |
| CEESAR | Netherlands E |
| Centre for Research and Technology Hellas | Nissan Motor |
| Centrum Dopravniho Vyzkumu, v.v.i. CDV | OR YAROK |
| Chalmers University of Technology | Rijkswatersta |
| Chemnitz University of Technology | Rijkswatersta |
| Children Hospital of Philadelphia | Road and Brid |
| Connecting Mobility | Robert Bosch |
| CTAG | SAFER |
| Cygnify BV | Saga Universi |
| Czech Technical University in Prague | Sapienza Univ |
| Delft University of Technology | SD-Insights |
| Delphi Poland S.A. | Seeing Machi |
| DLR | Shell |
| Drust | Siemens |
| Dynamic Research Inc | SWOV Institu |
| Ertico | The Ran Naor |
| ERTICO - ITS Europe | TLN |
| ERTICO-ITS Europe | TNO |
| European Commission | Toyota Motor |
| Federal Highway Research Institute (BASt) | Toyota Motor |
| FIA | Transdev |
| Fundación CIDAUT | Transportatio |
| German Aerospace Center e.V. | TU Delft |
| Goudappel Coffeng | TU Delft, Civil |
| Hochschule für Technik und Wirtschaft Dresden | TU Dresden |
| Honda Research Institute Europe GmbH | TVM verzekei |
| ICOM Ltd. | Uniresearch E |
| IFSTTAR | University of |
| In Person | University of |

| nnov+ and GIPSA-lab/Université Grenoble Alpes |
|---|
| Institute of Transport Economics |
| Keypoint Consultancy |
| LAB |
| LAB Renault PSA |
| Leiden University |
| Loughborough University |
| Louisiana State University |
| Mazda North American Operations |
| Ministerie van Infrastructuur en Milieu |
| Monash University Accident Research Centre |
| National Technical University of Athens |
| Netherlands Enterprise Agency |
| Nissan Motor Co., Ltd. |
| OR YAROK |
| Rijkswaterstaat |
| Rijkswaterstaat WVL |
| Road and Bridge Research Institute |
| Robert Bosch GmbH |
| SAFER |
| Saga University |
| Sapienza University of Rome |
| SD-Insights |
| Seeing Machines Ltd. |
| Shell |
| Siemens |
| SWOV Institute for Road Safety Research |
| The Ran Naor Foundation |
| ΓLN |
| ΓΝΟ |
| Toyota Motor Europe |
| Toyota Motor Europe NV/SA |
| Transdev |
| Transportation Research Board |
| TU Delft |
| TU Delft, Civil Engineering and Geosciences, |
| TU Dresden |
| TVM verzekeringen |
| Uniresearch BV |
| University of Leeds |
| University of Liverpool |



| University of Michigan |
|-------------------------------|
| University of New South Wales |
| University of Toronto |
| University of Twente |
| University of Valencia |
| University of Wyoming |
| VEDECOM |

| VicRoads | |
|--------------|--------------------------------------|
| Virginia Tec | h Transportation Institute |
| Virginia Tec | h Transportation Research Plaza |
| Volvo GTT | |
| VTI- Statens | väg- och transportforskningsinstitut |
| XLLease | |



Appendix C – Photographs



UDRIVE D63.7 – Final conference





